

**MINUTES OF MEETING
ON
THE FOURTH 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 fourth meeting on December 1, 2017 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 and Colonel, 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.

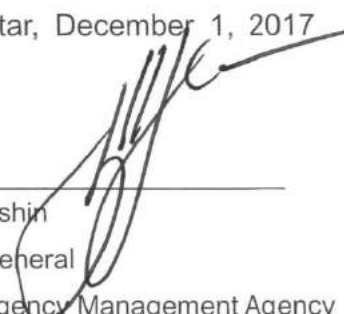
Ulaanbaatar, December 1, 2017



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



Mr. Batsengee Dorjsembed
Director General
Development Financing Department
Ministry of Finance, Mongolia



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

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 and how to incorporate the knowledge learned from the second training in Japan into the further 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 third JCC on June 29, 2017 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. Areas targeted for revision of the regional disaster management plan

Regarding places targeted for revision of regional disaster prevention plans, it was proposed by NEMA in the fifth SC held on November 24th, 2017, that pilot activities shall be implemented in two districts, namely Chingeltei and Bayangol in UB city, and two Aimags, including Darkhan-Uul Aimag and Umnugobi Aimag.

4. Next JCC meeting

The Mongolian side will consider the next JCC schedule taking into consideration the progress of the project and notify related organization.

5. 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

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

Annex 4: Working Group Member List

Annex 5: Record of Question and Answer in the JCC meeting

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Annex 1: List of participants

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

Date: 2017/12/1

Place: NEMA Conference Room

Title of Meeting: Agenda for 4th Joint Coordination Committee

Name	Department, Organization	E-mail/ Tel	Signature
T. Badral	Chief of NEMA		
L. Sayana	Advisor in charge of Emergency Management of Deputy Prime Minister	Sayanaa @ cabinet.gov.mn	
S. Magnaisuren	State Secretary of Ministry of Construction and Urban Development		
D. Batsaikhan	Director of Disaster Prevention Department, NEMA	99113991 D.Batsaikhan	
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D. Jargal	Director of Infrastructure and State Inspection Department, General State Inspection Agency	d.jargal @ yahoo.com 99176069	
Z. Munkh-Orgil	Officer of Aid Policy Division, Development Financing and Debt Management Department, Ministry of Finance		
J. Myagmar	Director, Division of Preprimary and Primary Education of Ministry of Education, Culture Science and Sports		
P. Bayarkhuu	Vice Mayor of the Capital City in charge of Urban Development		
N. Ulambayar	Director of Emergency Management Department of the Capital City (EMDC)		
G. Enkhtuya	Director of Construction Quality and Safety Division, Master Planning Agency of Capital City	Enkhtuya G. Enkhtuya @ yahoo.com 99016187	
Mitsumi Sato	Chief Representative of JICA Mongolian office	Sato. Mitsumi @ jica.go.jp	
Satomi Yoshino	Project Formulation Advisor of JICA Mongolian Office	Yoshino. Satomi @ jica.go.jp	
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G. Kholiun S. m.	Institute of Educational Research	kholiun @ ier.mn	

Name	Department, Organization	E-mail/ Tel	Signature
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Ya. Erdenebat	JET	erdene7@msn.com	

Annex 2: Agenda of the JCC Meeting



**“THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY
OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA”
Agenda for 4th Joint Coordination Committee (4th JCC)**

Date: December, 1st 2017

Time: 10:00~12:00

Venue: NEMA Conference Room

No.	Time	Agenda	Presenter
	9:50-10:00	Registration	
1	10:00-10:10 (10 min)	Opening remarks from NEMA	<i>Mr. Badral Tuvshin Chief, Brigadier general, NEMA</i>
2	10:10-10:20 (10 min)	Opening remarks from JICA	<i>Mr. Mutsumi Sato Chief Representative, Mongolia Office, JICA</i>
3	10:20-10:25 (5 min)	Overview of project activity and schedule	<i>Kiyotaka Owada Team Leader, JICA Expert Team</i>
4	10:25-10:45 (20 min)	Progress of WG1 Activity	<i>Representative for WG1</i>
5	10:45-11:05 (20 min)	Progress of WG2 Activity	<i>Representative for WG2</i>
6	11:05-11:25 (20 min)	Progress of WG3 Activity	<i>Representative for WG3</i>
7	11:25-11:50 (35 min) *Consecutive Translation	Discussion and confirmation on: - Amendment of Working Group Member - Procuring Equipment - Target Aimags for revision of the regional disaster management plan Others	<i>Project Coordinator, NEMA Discussion with All Participants</i>
8	11:50-12:00 (10 min)	- Closing remarks	<i>Mr. D.Batsaikhan Director of Disaster Prevention Department, NEMA</i>

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

Working Group 1 Progress Activity

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



Progress Overview

Task	Start	2007												2008											
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
1.1.2 To develop guidelines on improvement of legal framework and plans, assessment of disaster risk and database on disaster risk reduction.	Jan																								
1.1.2.1 To develop the guidelines of risk assessment	Jan																								
1.1.2.2 To develop the guidelines of disaster management plan	Jan																								
1.1.2.3 To develop the Guidelines of Disaster	Jan																								
1.2 To develop new regulations and the study of related version of regulation on implementation of the Law of Disaster Prevention	Jan																								
1.2.1 To examine the contents of the Law of Disaster Prevention and amend regulations to be ready established	Jan																								
1.2.1.1 To develop the draft of the agreement which covers the monitoring and cooperation system (MMS) and related	Jan																								
1.2.1.2 To examine the draft that need to coordinate agreement to legal proceeding system, between MMS and related	Jan																								
1.2.1.3 To organize the items to be described in the agreement on the essential activity items, coordinate with related organizations, prepare draft agreement	Jan																								
1.2.1.4 To coordinate agreement	Jan																								
1.3 To update the plan result in 1.2.1 and make a report for the benefit of disaster protection, etc.	Jan																								
1.3.1 To improve the present system which collect and analyze responsibility of disaster risk reduction	Jan																								
1.3.1.1 To identify problems and issues of disaster information system	Jan																								
1.3.1.2 To identify rules and regulation on data collection and disaster planning	Jan																								
1.3.1.3 To prepare the database guidelines based on the result in 1.3.1.2	Jan																								
1.3.1.4 To improve the present system and system operation	Jan																								
1.3.2 To update the present system and system operation	Jan																								
1.4 To elaborate white paper on disaster risk reduction which is the final result of the progress on implementation, the final evaluation of disaster risk reduction plan of national and	Jan																								

Working Group 1-1: Earthquake Risk Evaluation Guidelines

Progress of Activities

- Translations for Earthquake Risk Evaluation Technical Guidelines, and the DIG Manual has been obtained.
- Opinions were exchanged with Working Group 2 and information was gathered in relation to methodologies related to evaluating infrastructure and engineering networks.

Studying the structure and contents of the earthquake risk evaluation guidelines
 Develop a general evaluation guidelines
 Develop an initial draft of the detailed evaluation guidelines

- The Working Group has made sure that earthquakes disaster risk shall be the primary focus
- The general evaluation guidelines for earthquake disaster risk has been developed as part of the "Disaster Risk Evaluation Procedures"

Working Group 1-2: Earthquake DRR Plan Guidelines

Progress of Activities

- Parts 1 and 2 of the Japanese National DRR Plan have been fully translated. They have been contrasted with the Capital DRR Plan.
- Contents of the Earthquake DRR Plan Guidelines
 - Chapter 1. General Provisions
 - Chapter 2. Earthquake Disaster Risk Prevention Plan
 - Chapter 3. Earthquake Disaster Operation Plan
 - Chapter 4. Urgent Recovery Plan during Earthquake Disasters
- Draft DRR Plan guidelines for earthquakes at the national, capital, aimag, district and soum levels have been developed.
- Intensive work meetings were held in order to develop the draft guidelines, in which the opinions of the JET were taken into account.
- The draft guidelines for the National Disaster Management Plan (earthquake section) are being developed.

Working Group 1-2: Earthquake DRR Plan Guidelines

The Working Group is studied the options and selected pilot regions (capital and 2 aimags) to conduct tests for improving the DRR Plan.

	Proposed Area	Reasons for Selection
1	UB City Chingeltei District	Large amount of new, tall, high-rise and low-rise buildings; High concentration density; also suitable for disaster.
2	UB City Bayanlun District	Contains a large amount of newly-built, reinforced 5-storey residential buildings.
3	Aimag Darkhan-Uul Aimag	As the second largest city in Mongolia, Darkhan has large industrial facilities and is a large hub for infrastructure, energy and transport.
	Aimag Omnogovi Aimag	Seismic activity is increasing in this area.



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Working Group 1-3: Memorandum of Cooperation

Sector	Party Responsible for Establishing the Memorandum	Status of the Memorandum
Communications	Telephone Service Providers	Completed
Fuel	Mineral Resources and Petroleum Authority	Completed
Medicine	Ministry of Health	Draft developed and revised
Food	Ministry of Food, Agriculture and Light Industry	Draft developed and revised
Temporary Residence	Ministry of Construction and Urban Development	Draft developed and revised
Potable Water	USUG	Draft developed and revised

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Working Group 1-3: Memorandum of Cooperation Further Plans

- ▶ Studying the management and organization of the National DRR Service of the Ministry of Health according to the Institutional Management Evaluation Methodology. For this, an agreement was made with the Ministry of Health to test the methodology developed by World Vision.
- ▶ Studying the National DRR Service plan of the Ministry of Health, and improving DRR operations through Memorandums of Cooperation with the relevant institutions.
- ▶ Strengthening the DRR activities specified in the Memorandum of Cooperation through training and practice.
- ▶ Establishing the Memorandum, presenting the work results related to the Memorandum of Cooperation established with the National DRR Service of the Ministry of Health to the relevant ministries and departments through the training organized within the framework of the

Working Group 1-4: White Paper

Work Progress of Developing the White Paper

- The first chapter of the "White Paper" was completed in July, August.
- The working plan for developing the "White Paper" was presented to the officials responsible for preparing the materials to be included in the "White Paper".
- In October, a meeting was organized to provide instructions on the information and materials to be prepared by the officials responsible for preparing the materials to be included in the "White Paper".

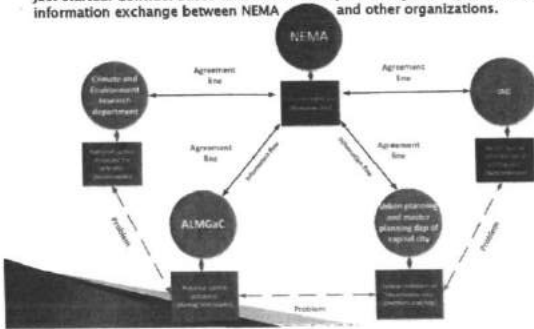
To be Completed

- 3.2. Increasing the participation of the local administration in DRR activities.
- 3.4. The participations of citizens, NGOs, groups and cooperatives in DRR activities.
- 5.6. DRR tools and equipment.
- 5.7. The White Paper shall be fully developed upon completion of the chapters on Post-Disaster Recovery Activities.

Sub-WG5 Database GL

1. Development of Spatial Database for DRR (SDDRR)

Make a cooperation with other state organizations for collection of spatial data is just started. Contract based actions will be required for gathering spatial data and information exchange between NEMA and other organizations.



2. Preparation of human resource for SDDRR

Step 1:

❖ New organizational structure of early warning center is prepared as a proposal. 4 new position proposed in new organizational structure for E-comi map system and management of SDDRR.



Step 2:

❖ Establishment of new working group is under preparing and divided by management units from NEMA and operation unit from EMA in aimags and Ulaanbaatar city. The new WG is close and cooperative work with early warning center.

Preparation of guideline & operation manuals

Expected Results from the Training:

- Disaster management planning, organization, contents, and structural and non-structural measures at national, regional, city and village levels, emergency management, organization and preparedness.
- Damage projection methodology, and methods to include it in the disaster prevention plan.
- Temporary shelters, their management and financing, and the coordination of goods provided as aid.
- The structure, organization, activities and financing of volunteer organizations and firefighters.
- Establishing agreements at the regional, city and village levels, and methods to include memorandums in the disaster prevention plan.
- Disaster prevention strategy and activities of large cities.
- Detailed disaster risk evaluation methodology.
- Disaster statistical data, building and utilizing database, how to use the "E-Comi Map" in the event of a disaster.

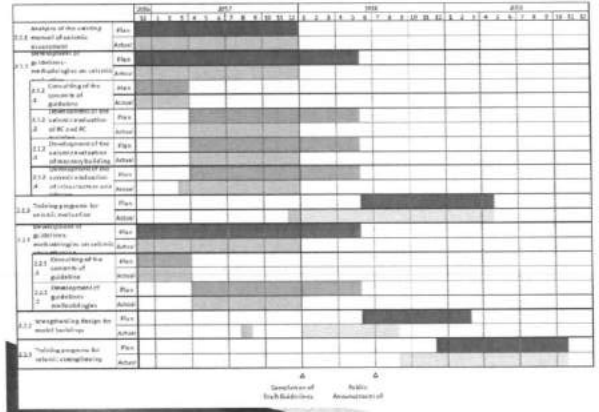
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Progress of WG2 Activity

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

4th Joint Coordination Committee
December, 14th, 2017

Progress Overview



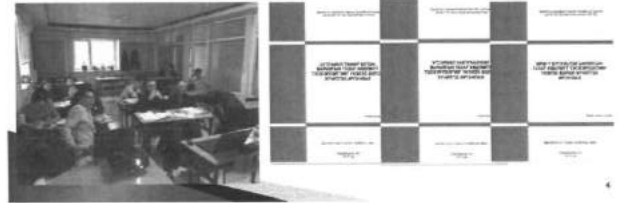
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Procedure to prepare BDs



Progress of Sub WG2-1 Seismic Evaluation of Buildings

- Mongolian Association of Civil Engineering (MACE) was selected as Consulting Service Team (CST) for the GL - seismic evaluation and retrofitting of buildings by Construction Development Center (CDC).
- MACE and WG2 members held joint meetings and decided contents of the GLs and completed the final drafts.



4

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

The process of developing BD draft

The final draft was submitted to the CDC and the relevant agencies, and editorial and review engineers have been cast.

Seminar on presentation about the content of GL

In cooperation with members of the WG2, the NEMA's disaster and fire inspectors, GASI's and EMDC's Infrastructure Inspectors and CDC's trainers attended "Seismic evaluation of infrastructure and lifelines" seminar on presentation about contents of GL.



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Progress of WG2

Check Sheet

- WG-2 submitted the checklists that can be used for assessing the seismic risk of the infrastructure and pipeline to the director of the GASI's infrastructure department.
- GASI's Infrastructure Department considered it possible to reflect the check sheet on its risk criteria used by infrastructure inspectors.

Nominated as Reference Guidelines

- Regulation for occupancy certificate and passport of building

Check Sheet

Regulation for occupancy certificate and passport of building

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

/Working group-2/
2017/11/12 – 11/22

Obtained knowledge

- Lessons of past earthquakes occurred in Japan.
- Research and development of a system combining Earthquake Early Warning (EEW) and Structural Health Monitoring (SHM) /Toboku university/
- Site visiting of buildings that were actually earthquake-resistant reinforced and building structural experimental laboratory /Toboku university/



- Visited a building that has been reinforced by the seismic isolation system. /Sendai High Court/
- About the damage of non-structural members (suspended ceiling, windows, furniture, equipment) due to earthquake. /Example of Tohoku university engineering faculty/



How to make use of the knowledge obtained in the training in Japan and future activities

Respond the Mongolian needs

- Take a look at operations of the Building center of Japan and the Japanese building permission & inspection system to apply that the construction and design of the new buildings are being built in Mongolia.
- Confirm the points to be noted for each type of structure for the GL being established.

Technology transfer

- In consideration of cost and structural type, technically possible reinforcement methods are incorporated into GL.
- Introduce the contents of the evaluation method of earthquake damage risk of infrastructure and pipeline to engineers and auditors, and use it for risk assessment in the future.

Future activities

- Training program for evaluating the risk of earthquake damage of infrastructure pipeline. 2018.06
- Training program for seismic diagnosis of buildings : 2018.06
- Strengthening design for model building: 2018.04-09
- Training program for seismic strengthening: 2018.09


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"The Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia"
4th JCC (Joint Coordination Committee) Meeting

Output 3-1 : DRR Education Progress of activities



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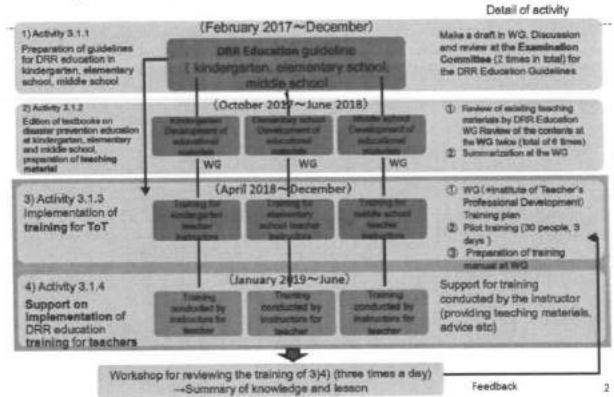
2nd training in Japan of C/P

What can be used in Mongolia

- Precedent, experience, lesson
Official source, examples
Experience, lessons learned
- Educational program, advice, teaching materials
Characteristics of the region, opinions → content, teaching method, reading materials
Information, training, drill
- **Cooperation, collaboration**
 - DRR Education teacher, staff
 - Affiliated school, kindergarten
 - Expert Team for professional advice
 - Individuals, companies, local governments, national level, international level



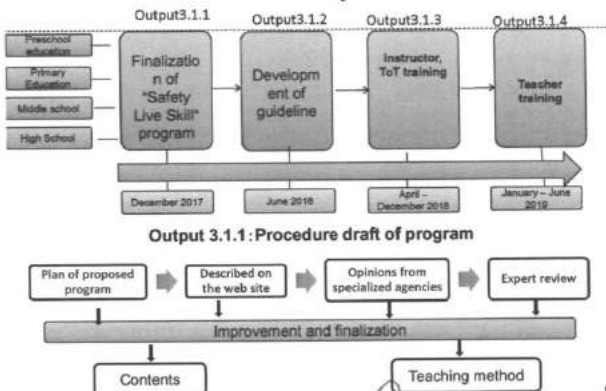
Output3-1: Flowchart of DRR Education activity



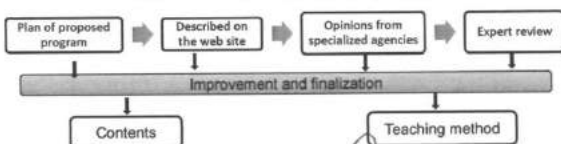
WG 3.1 Progress of activity

Activities	Year	2017			2018			2019		
		W	T	F	W	T	F	W	T	F
3.1 To develop a guideline which shows contents, method and implementation way of disaster reduction (DRR) education in kindergarten and primary										
3.1.1 To review current situation of DRR education in kindergarten and primary and secondary schools comparing with Japanese practices	Plan									
3.1.2 To develop the guideline through the activities of the District DRR Education Working Group (DWG)	Actual									
3.1.2 To develop educational materials such as textbooks and supplementary materials for DRR education in kindergarten and primary and secondary schools										
3.1.2.1 To collect and review existing educational materials through the WG activities	Plan									
3.1.2.2 To establish Task Forces for the development of the educational materials (one task force each for kindergarten, primary, and secondary)	Actual									
3.1.2.3 To organize workshops and discuss and decide the contents of educational materials to be developed	Actual									
3.1.2.4 To develop and finalize the educational materials through the Task Force and the WG activities	Actual									
3.1.3 To implement training programs for the instructors of Teacher Training Institute and experts of educational department in local governments, using the										
3.1.3.1 To formulate the training programs through workshops and the WG activities	Plan									
3.1.3.2 To implement pilot training	Actual									
3.1.3.3 To review the training and formulate training manuals	Plan									
3.1.4 To implement the training program for teachers by the instructors and experts who organized the training programs mentioned in 3.1.3										
3.1.4.1 To support the training for teachers	Plan									
3.1.4.2 To review the result of the training of 3.1.3 and 3.1.4 through workshop and the WG activities and complete lessons learnt	Actual									

WG 3.1 Activity Schedule



Output 3.1.1: Procedure draft of program



Output3.1.2: Preparation of guidebook (preparation of teaching materials)

- Scheduled time for completion: until June 2018
- Implementation of 3-day workshop
Date : January 10th 2018 (Wednesday) ~ 12th (Friday)
- Participants: WG 3 - 1 members, WG 3 - 2 person in charge of teaching material making , person in charge of Safety Live Skill
- Implementation of regular meeting (every 2 weeks)

Structure of Guidebook

Foreword	Abbreviations
Chapter 1	Understanding safety education
	1. Background, Demand
	2. What is safety education
Chapter 2	Preschool, "Safety Education" Learning from Compulsory Education
	1. Consistency between subjects (study items) and programs of "safety education"
	2. Consistency between extra-curricular activity time and "safety education" program
	3. Consistency between activity for improvement of life skill and "safety education" program
Chapter 3	"Safety Education" Program Implementation Method (Overseas Case)
	1. Education of schools that implement "safety education" program, preparation of action plan
	2. Curriculum of each subject
	a. Pre-school education
	b. Primary education
	c. Basic education
	d. High school education

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Annex 4: Working Group Member List

Working Groups

Working Group (WG)		Sub-WG	Member
WG1	Disaster Management Plan WG1 Coordinator: D.Bazarragchaa Disaster Risk Management Department, NEMA	Risk Assessment Guideline	D.Serjmyadag Disaster Research Institute, NEMA P.Amarzaya Disaster Research Institute, NEMA D.Bazarragchaa Disaster Risk Management Department, NEMA B.Batbayar Disaster Risk Management Department, NEMA B.Khishigbaatar Disaster Operation Department, NEMA S.Bazarragchaa Disaster Research Institute, NEMA
		Disaster Management Planning Guideline, Preparedness Planning Guideline and Risk Management Guideline	B.Bayanmunkh Policy Coordination and Cooperation Department, NEMA B.Myagmardorj Disaster Operation Department, NEMA Ch.Otgontugs Fire Department, NEMA E.Batbayar EMDC A.Dashnyam EMDC Ts.Turbileg Disaster Operation Department, NEMA
		Agreements	B.Duvshin Disaster Risk Management Department, NEMA
		White paper	O.Tsend-Ayush Disaster Prevention Department, NEMA
		Database Guideline	B.Purevnyam Disaster Operation and Early Warning Command Center, NEMA D.Badamsuren Disaster Research Institute, NEMA D.Bayarbaatar Disaster Operation and Early Warning Command Center, NEMA D.Sodnomragchaa Disaster Research Institute, NEMA B.Boldkhuu Disaster Operation and Early Warning Command Center, NEMA
WG2	Seismic Resistance WG2 Coordinators: B.Soyomboo MCUD Z.Battulga Disaster Operation Department, NEMA	Seismic Diagnosis of Buildings	B.Soyomboo MCUD Z.Battulga Disaster Operation Department, NEMA N.Ganchimeg General Agency for Specialized Inspection B.Tsend-Ayush Master Planning Agency of Capital City, Construction Quality and Safety Department G.Saruultuya Construction Development Center T.Galbadrakh Finance and Logistics Department, NEMA G.Erkhembayar MCUD B.Gantulga Land Management, Geodesy and Cartography Agency, MCUD
		Seismic Diagnosis of Infrastructures and Lifelines	B.Soyomboo MCUD Z.Battulga

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Working Group (WG)		Sub-WG	Member
			Disaster Operation Department, NEMA N.Ganchimeg General Agency for Specialized Inspection B.Munkhsaikhan General Agency for Specialized Inspection G.Erkhembayar MCUD B.Gantulga Land Management, Geodesy and Cartography Agency, MCUD
		Design for Seismic Strengthening	B.Soyomboo MCUD Z.Battulga Disaster Operation Department, NEMA N.Ganchimeg General Agency for Specialized Inspection B.Tsend-Ayush Master Planning Agency of Capital City, Construction Quality and Safety Department G.Saruultuya Construction Development Center G.Erkhembayar MCUD B.Gantulga Land Management, Geodesy and Cartography Agency, MCUD Ts.Khulan Master Planning Agency of Capital City, Construction Quality and Safety Department
WG3	DRR Education <u>WG3 Coordinator:</u> 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 ITPD D.Munkhbat Disaster Prevention Department, NEMA L.Munkhchimeg Disaster Prevention Department, NEMA
		Community DRR Education	D.Munkhbat Disaster Prevention Department, NEMA D.Bat-Erdene Disaster Prevention Department, NEMA B.Uuriingegee EMDC B.Chinbat EMDC D.Dulamsuren Public Information Center, Disaster Prevention Department, NEMA S.Angalan Administrative Management Department, NEMA S.Doljinsuren EMDC B.Ariunchimeg National Center for Long life Education



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Annex 5: Record of Question and Answer in the JCC Meeting

1. Changes in WG Members, the Inclusion of Roads and Bridges in Structural Guidelines

Comment: Lieutenant Colonel Munkhbat, Head of the Division on DRR Awareness-Raising, NEMA:

In terms of WG1, Captain Khishigbaatar of the Disaster Emergency Management Department and Colonel Bazarragchaa of the Disaster Research Institute were added as members in charge of developing the risk evaluation guidelines.

Also in WG1, Captain Turbileg was added as a member in charge of improving the DRR plan guidelines, and Lieutenant Colonel Bayarbaatar is a now new member in charge of database development.

The Department Head at MCUD, Mr. Soyomboo was appointed as team leader of WG2, and is also responsible for activities related to infrastructures and lifelines.

As for WG3, Lieutenant Munkhchimeg from the Disaster Prevention Department has joined WG3-1; and Lieutenant Doljinsuren, Disaster Prevention Specialist at the Bayanzurkh District Branch of NEMA, will join WG3-2.

Are there any comments on the changes?

Question: Ms. Jargal, Director of Infrastructure Department, the General Agency for Specialized Investigation (GASI):

I would like to clarify something. Besides developing guidelines for buildings and infrastructures and lifelines, will the Project be included experts of GASI to WGs? I heard that the WGs who have gone on the training in Japan have talked about the importance of including roads and bridges.

Answer: Mr. Owada, JICA Expert Team:

Roads and bridges are included in the guidelines for infrastructures and lifelines, and are now pending approval. We then plan to present these guidelines to specialists on roads and bridges in a training session to be held in February or April of next year and have discussions on how to effectively use, and improve them.

Question: Ms. Jargal, Director of Infrastructure Department, GASI:

As of now, roads and bridges are not included in the guidelines to be printed.

Answer: Mr. Dorjhand, JICA Consultant in charge of Seismic Diagnosis:

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The content related to roads and bridges are currently being developed with the help of Japanese experts.

Question: Ms. Jargal, Director of Infrastructure Department, GASl:

Can roads and bridges be included in the activities of the WGs?

Comment: Mr. Gantulga, JICA Consultant in Charge of Roads, Bridges, and Infrastructures and Lifelines:

I would like to clarify a few things: First, in the newly amended Construction Law, roads and bridges were not included under the term "structure". Secondly, The State Secretary of the MCUD required us to include roads and bridges in the infrastructure in the guidelines. As the project are going to request the opinion of the guideline from the Ministry of Roads, Transport and Development (MRTD), Road and Transport Development Center, etc., GASl will be able to deal with it in this opportunity. The training of next year is also good occasion as Mr. Owada mentioned.

Comment and Question: Ms. Jargal, Director of Infrastructure Department, GASl:

Since currently the legal environment for the inspection of roads and bridges is not fully developed, I would like to ask, if possible, to include specific activities related to roads and bridges in the WGs.

Comment: Mr. Gantulga, JICA Consultant in Charge of Roads, Bridges, and Infrastructures and Lifelines:

I would like to also quickly mention that guidelines for maintenance of road and bridges were developed in 2015 by the MRTD in cooperation with JICA.

Question: Lieutenant Colonel Munkhbat, Head of the Division on DRR Awareness-Raising, NEMA:

Any opinions on changes in WG members?

If not, let's move on to the next topic, which concerns the necessary equipment for the Project. The term 'equipment' shall include the equipment at NEMA training center, as well as seismic diagnosis tools.

2. The Supply of DRR Equipment

Comment: Mr. Owada, JICA Expert Team:

I would like to mention a few things regarding the equipment. The required seismic diagnosis tools were identified and the preparations are currently underway. Preparations to the shaking table were made. A few days ago, CR Sato talked with

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General Badral about the equipment and has mentioned that there would be a slight delay.

Since there is also some construction work to be done for the installation of earthquake simulation, the equipment should be delivered in a timely manner.

Comment and Question: Ms. Jargal, Director of Infrastructure Department, GASI:

I understand that the equipment of seismic diagnosis will be used for the training of seismic diagnosis. Will the delivery of the equipment be coordinated with our plans to organize this training? I just want to clarify as you said there will be a delay.

Answer: Mr. Owada, JICA Expert Team:

The training is planned for June of next year. No equipment doesn't mean that training is impossible to start, but we will try to deliver the equipment before the training starts. For now, the equipment is scheduled to be delivered in May, and should therefore arrive in time for the training in June 2018.

Question, Lieutenant Colonel Munkhbat:

Are there any comments regarding Mr. Owada's explanation on equipment?

If not, let's move on to the next topic, which is selecting the pilot areas for the program to improve regional DRR plans of WG1.

3. Pilot Areas for the Program to Improve Regional DRR Plans, Case Study in Govi-Altai Aimag.

Question: Lieutenant Colonel Munkhbat, Head of the Division on DRR Awareness-Raising, NEMA:

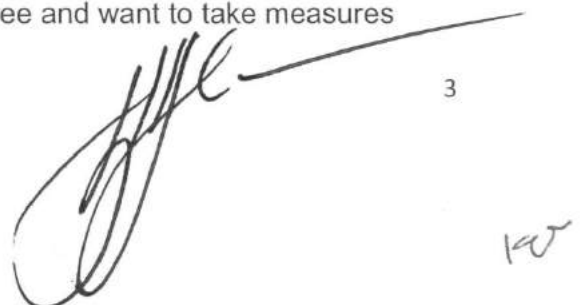
As mentioned before, two capital districts: Chingeltei and Bayangol, as well as two aimags: Darkhan-Uul and Umunugovi were selected. Are there any comments on this?

Comment and Question: Ms. Sayanaa, Advisor to the Deputy Minister:

Just recently there was an earthquake of Magnitude 4.7 in Govi-Altai aimag. It was the first earthquake in recent years that caused significant cracks in the buildings of some schools and kindergartens. Is it possible to conduct research there as part of our Project? The goal of the Project is to strengthen DRR capacity and now a real disaster occurred just a month ago with regions already taking measures. We are talking about improving seismic resistance but can we visit a real disaster site and take necessary measures there?

However, I am not saying that we should change the pilot areas. I am merely suggesting to conducting an evaluation on the outcome of the earthquake in Chandmani soum of Govi-Altai aimag. If the Project members agree and want to take measures

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there, the Office of the Deputy Minister can support the Project by providing a reporting team from the National Radio and Television. We want to conduct an on-site evaluation of the earthquake, collect lessons, and inform the public on what to do in similar situations in other aimags.

Currently, the Mongolian Government is saying that the economy is in a bad state and it is difficult to improve the durability of buildings. But how about we take the lessons from this recent event and inform other aimags and educate the public? This can be done by preparing a short television program based on the on-site evaluation. This way, citizens in other aimags will act more effectively in taking preventive measures in similar situations. Let's do something with real results.

Comment: Mr. Owada, JICA Expert Team:

Thank you for your comment. WG2 are working in relation to this incident. They are able to conduct a case study on the recent earthquake in Govi-Altai. We would like to consult with the WG2 activity after investigation the damage situation.

Comment and Question: Ms. Sayanaa, Advisor to the Deputy Minister:

I just wish to take measures that yield real results. Please focus on this.

Comment, Lieutenant Colonel Munkhbat, Head of the Division on DRR Awareness-Raising, NEMA:

Are there any more comments on pilot areas? If not, the matter is settled.

4. Frequency of the Steering Committee Meeting and the JCC Meeting

Question: Colonel Batsaikhan, Project Director, Director of Disaster Prevention Department, NEMA:

Currently, the Project Steering Committee Meeting is held quarterly, while the JCC Meeting is held quarterly. There is also a proposal to organize the JCC Meeting semi-annually. Are there any comments?

Question: Mr. Sato, Chief Representative of JICA in Mongolia:

Since the beginning of the Project, the Steering Committee Meetings were held quarterly. Are there any issues with the current frequency of meetings?

Comment: Ms. Sayanaa, Advisor to the Deputy Minister:

In response to Sato-san's question, I believe that Steering Committee and JCC Meeting must be conducted according to the project guidelines since it is agreed upon by both parties. JCC are an excellent opportunity to identify issues, obtain information and discuss what the Mongolian Government can do to support the Project.

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Also, I'd like to mention that during the meeting between the Deputy Prime Minister and the Ambassador of Japan to Mongolia, our Project was emphasized. The two sides have agreed that the results of this project will have a material effect on DRR policies in Mongolia and from our side, we should support the Project in any way we can.

It is especially important for the Project to be flexible. For example, I just mentioned the Govi-Altai earthquake in this meeting and already a decision was made to take measures there. For example, the Deputy Prime Minister has approved of Government measures to take in response to public health crises in the disaster. The WHO has expressed to support practical tests for these measures and to drill exercises need to be conducted in order to check implementation. Now I would like to request the JICA Mongolia Team, Mr. Sato and Mr. Owada to focus on similar practical measures.

Also, I'd like to take this opportunity to express my gratitude to the Project members for taking the initiative to improve coordination with other projects from different organizations. NEMA cooperates with other organizations and I am glad that the JICA Project is well-aligned with the project conducted by World Vision. Last week, I had a meeting with the Head of the East Asia Department of the Asian Development Bank (ADB) and I mentioned the JICA project, and talked about improving coordination between our two projects since they are both on the subject of earthquake DRR. Yesterday, I had a meeting with Mercy Corps. Their new project is the introduction of DRR IT systems into Mongolia and I believe this project can be well-coordinated with the JICA project. Today, we talked about the need for support and servers. If JICA is talking about this, we should ask what can be done in terms of cooperation with other projects? Such as splitting server costs. I propose we jointly discuss this matter with other organizations.

Also, regarding the Memorandums of Cooperation with related organizations, I understand that two are established while four or five are still awaiting approval. What is taking so long? If there is any issue, tell us and Deputy Prime Minister will provide support.

Lastly, I would like to raise the issue of participation. I believe members should pay even more attention to attendance and punctuality. Prime Minister Khurelsukh gave organizations a direct order to be on time for meetings and I believe we should implement this advice in our Project. If our JCC members are unable to attend, then official representatives should be nominated. I wish for these tables to be filled in meetings and I urge Colonel Batsaikhan to please focus on this. The Mongolian side should pay more attention to this issue. I'd like to repeat the Prime Minister Khurelsukh's words to late officials: earthquakes happen in a matter of seconds and this is a project dedicated to reducing the risk of earthquake disasters, but if the DRR decision makers themselves are late, how can we keep the project running successfully?

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Finally, I'd like to express gratitude to JICA and the Project participants, if you need support please contact me and the Deputy Prime Minister will support however necessary.

Question: Mr. Sato, Chief Representative of JICA in Mongolia:

Thanks you for your comment. If the Mongolian side has discussed the issue and have found reasonable reasons to organize the JCC Meeting semi-annually, then there are no objections from our side.

Also, as Ms. Sayanaa mentioned, I notice that some members are absent in this meeting. I understand that officials are busy, but I'd like to suggest that if you are personally unable to attend a meeting, please nominate a representative.

Answer: Ms. Sayanaa, Advisor to the Deputy Minister:

Yes, please discuss this with Major General Badral.

Comment: Lieutenant Colonel Munkhbat, Head of the Division on DRR Awareness-Raising, NEMA:

We have finished discussing the topics for today. If there are no further questions, I now invite the Head of the DRR Department of NEMA, Mr. Batsaikhan for his closing speech.

END OF QUESTION AND ANSWER SESSION

Colonel Batsaikhan, Project Director, Director of Disaster Prevention Department, NEMA:

I would like to thank everyone for participating in the fourth JCC Meeting of the Project. As for the Project activities planned in 2017, the focus will be on supplying the DRR training equipment and seismic diagnosis tools.

I also request the MCUD to focus on developing seismic diagnosis guidelines for old buildings, and the MECSS to focus on improving the DRR awareness of citizens, and providing primary and secondary school children with DRR education.

I would also like to wish WG1 success on their upcoming training in Japan, and I request the Japanese side to please provide them with the necessary information. As for the WGs that have come back from the training, I trust that you have brought valuable knowledge concerning disaster prevention and risk reduction, disaster preparedness, improving the seismic resistance of structures and protecting citizens from disaster. We have a lot to learn from Japan but we also have to focus on how to apply them in Mongolia.



In terms of project activities in 2018, the two sides need to cooperate in finishing the uncompleted work from 2017 within the first quarter. I would like to request the Chief Representative of JICA in Mongolia, Mr. Sato to support the Project in completing the tasks of the 2017 – 2019 working plan approved by JCC successfully in a timely manner. I hereby announce the closing of the fourth JCC Meeting. Thank you for your attention.

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**MINUTES OF MEETING
ON
THE FIFTH 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 fifth meeting on April 23, 2018 from 10:00 to 12:30, at Conference Room of National Emergency Management Agency (hereinafter referred to as "NEMA"), Ulaanbaatar, Mongolia, 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, April 23, 2018



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



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



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



Mr. Kiyotaka Owada
Team Leader
JICA Expert Team
Japan

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 fourth JCC on December 1, 2017 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. Schedule of Installing Equipment

Japanese side explained that the timing for installing equipment for seismic diagnosis is going to be behind schedule and requested Mongolian side to discuss how to conduct the usage guidance of the equipment as a part of the training for seismic evaluation planned on June, 2018. Mongolian side accepted the delay of installing equipment for seismic diagnosis and mentioned that the implementation method of guidance of the equipment shall be discussed in the activity of WG2.

Regarding the equipment of earthquake simulation experience for the Disaster Protection Training and Methodology Center, Japanese side requested that Mongolian side shall provide a proper response to advance preparation, equipment transport, supporting installation and control maintenance based on the Operation and Maintenance Plan approved in the third JCC held on June 26, 2017. In addition, Japanese side also requested Mongolian side shall build a safety fence and steps in the appropriate place and prepare a portal crane and a hand lift jack used for installing equipment as advance preparation. Mongolian side accepted those requests and asked to provide documents and drawings necessary for dealing with them.

4. Pilot Areas for DRR (Disaster Risk Reductiion) Education and Awareness Activities

Based on the result of the discussion in the sixth Steering Committee (hereinafter

referred to as "SC") held on March 19, 2018, Bayanzurh and Bayangol in Ulaanbaatar City (hereinafter referred to as "UB City") and Zavkhan Aimag were selected respectively as the pilot areas of the urban areas, Ger areas, and the rural areas for implementing Training of Trainers (hereinafter referred to as "ToT") workshops for DRR education and awareness raising. The selection criteria were; risks of deteriorated buildings for urban areas; and disaster risks other than earthquake, such as flood, for the Ger areas; and earthquake risks for rural areas, considering future wide dissemination of DRR Education and Awareness activities based on the experiences and lessons learned through pilot activities to all over Mongolia.

The pilot community activities conducted by the Trainers trained in the ToT shall be implemented in the twenty-third Khoroo of Bayanzurh District, the second Khoroo of Bayangol District and Otgon and Uliastai Souns of Zavkhan Aimag.

5. Next JCC meeting

The Mongolian side will consider that the next JCC schedule will be tentatively scheduled in September and notify related organization.

6. 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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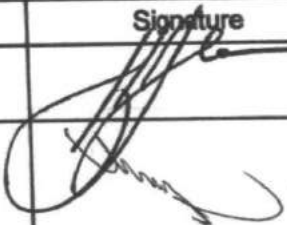
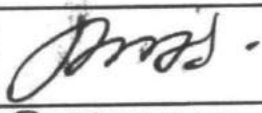
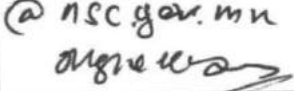
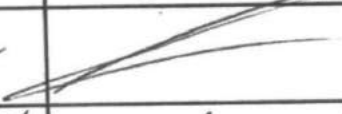
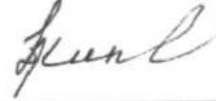



Annex 1: List of participants

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

Date:2018/4/23

Place:NEMA Conference Room (1st Floor)

Title of Meeting: 5th Joint Coordination Committee (5th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
T.Badral	Chief, Major General, NEMA		
L. Sayana	Advisor in charge of Emergency Management of Deputy Prime Minister		
S.Magnaisuren	State Secretary of Ministry of Construction and Urban Development		
D.Batsaikhan	Director of Disaster Prevention Department, NEMA	99113991.	
Yo.Jargalsaikhan	Referent of National Security Council	jargalsai.kh@nsc.gov.mn 99190648	
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D.Jargal	Director of infrastructure and State Inspection Department, General State Inspection Agency	d.jargal@yahoo.com 99176069.	
Z.Munkh-Orgil	Officer of Aid Policy Division, Development Financing and Debt Management Department, Ministry of Finance		
J.Myagmar	Director, Division of Preprimary and Primary Education of Ministry of Education, Culture, Science and Sports	myagmar@mees.gov.mn 51-260721	
P.Bayarkhuu	Vice Mayor of the Capital City in charge of Urban Development		
N.Ulambayar	Director of Emergency Management Department of the Capital City (EMDC)		
G.Enkhtuya	Director of Construction Quality and Safety Division, Master Planning Agency of Capital City	enkhtuya@yaho.com 99016177	
Mutsdmi Sato	Chief Representative of JICA Mongolian office		

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

Date:2018/4/23

Place:NEMA Conference Room (1st Floor)

Title of Meeting: 5th Joint Coordination Committee (5th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
Kimio Takeya	Distinguished Technical Advisor to the President, JICA		
Junji Wakui	Deputy Director General of Global Environment Dept, JICA		和田 純二
Yukinari Hosokawa	Senior Deputy Director of DRR group, JICA		細川 亨成
Satomi Yoshino	Project Formulation Advisor of JICA Mongolian Office		吉野 聡美
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Kiyotaka OHADA	JET		
Akihiko Furuta	JET		胡田 明彦

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

Date: 2018/4/23

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 5th Joint Coordination Committee (5th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
Seichiro Fukushima	JET	fukushima_seichiro@gmail.com	
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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 5th Joint Coordination Committee (5th JCC)**

Date: April, 23rd 2018

Time: 10:00~12:00

Venue: NEMA Conference Room

No.	Time	Agenda	Presenter
	9:50-10:00	Registration	
1	10:00-10:10 (10 min)	Opening remarks from NEMA	<i>Mr. Badral Tuvshin Chief, Major General, NEMA</i>
2	10:10-10:20 (10 min)	Opening remarks from JICA	<i>Mr. Mutsumi Sato Chief Representative, Mongolia Office, JICA</i>
3	10:20-10:25 (5 min)	Overview of project activity and schedule	<i>Mr. Kiyotaka Owada Team Leader, JICA Expert Team</i>
4	10:25-10:45 (20 min)	Progress of WG1 Activity	<i>Mr. B. Bayanmunkh Policy Coordination and Cooperation Department, NEMA Mr. D. Sodnomragchaa Disaster Research Institute, NEMA</i>
5	10:45-11:05 (20 min)	Progress of WG2 Activity	<i>Ms. N. Ganchimeg General Agency for Specialized Inspection (GASI)</i>
6	11:05-11:25 (20 min)	Progress of WG3 Activity	<i>Ms. B. Erdenechimeg Education Research Institute, MECSS Mr. B. Chinbat EMDC</i>
7	11:25-11:50 (35 min)	Discussion and confirmation on: - Amendment of Working Group Member - Schedule of Installing Equipment - Pilot Areas for DRR Education and Awareness Activities - Schedule of Next JCC - Others	<i>Project Coordinator, NEMA Discussion with All Participants</i>
8	11:50-12:00 (10 min)	- Closing remarks	<i>Mr. D. Batsaikhan Director of Disaster Prevention Department, NEMA</i>

Progress of WG1 Activities

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

5th Joint Coordinating Committee Meeting
April 23, 2018

Sub-Working Group 1-1: Earthquake Disaster Risk Assessment Guideline

Progress of Activities

- The draft guideline for the general assessment of earthquake risk has been developed according to the following structure.
 1. Introduction
 - 1.1. General Provisions
 - 1.2. Purpose of the Guideline
 - 1.3. Scope of the Guideline
 2. Theoretical Background of Disaster Risk Assessment
 - 2.1. Disaster Risk Assessment
 - 2.2. Disaster Risk Assessment Process
 3. Methodology for the General Assessment of Earthquake Risk
 - 3.1. Terminology
 - 3.2. Methodology for the General Assessment of Earthquake Risk
 - 3.2.1. Identifying Earthquake Risk
 - 3.2.2. Analyzing Earthquake Risk
 - 3.2.3. Assessment of Earthquake Risk
 4. Developing Recommendations
 5. Including Risk Assessment Results in the DRR Plan
 6. Developing Earthquake Risk Assessment Reports
- The work for developing the draft guideline for the detailed assessment of earthquake risk is in progress.

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Sub-Working Group 1-2: Guideline for Developing the Earthquake DRR Plan

Progress of Activities

- The draft Guideline for Developing Earthquake DRR Plans for aimags and soums has been developed, and its contents have been verified and refined. The draft Guidelines for Developing Earthquake DRR Plans at the national, ministry, capital and district level are currently being amended and finalized.
- The working plan for the pilot regions selected for developing and improving the DRR plan (Darkhan-Uul, Umnugovi and 2 districts of the capital city) is being developed and the preparation work is underway.

Sub-Working Group 1-3: Agreement

A workshop entitled "Cooperating within the Scope of the agreement during Disasters" was held on April 9th, 2018 in which suppliers of medicine and medical equipment to national disaster protection agencies have participated.



Sub-Working Group 1-3: Agreement

Progress

Sector	Party in Charge of Developing the Memorandum	Status of the Memorandum as an Agreement
Telecommunications	Communications Service Providers	Under review by the Telecommunications Department
Fuel and gas	MRPAM	Completed
Medicine, human resources and medical equipment	MoH	Drafted and delivered
Food	MoFA	Drafted and delivered
Temporary shelter	MCUD	Drafted and delivered
Sewage	USUG	Drafted and delivered

Working Group 1-3: Memorandums of Cooperation

Further Plans

- Adding the part about memorandums to the DRR plans of national agencies



- Organizing the necessary meetings with the MoFA and communications service providers in order to sign the memorandums

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Working Group 1-4: DRR White Paper

Work Progress of Developing the DRR White Paper

- The main contents of the White Paper have been finalized and presented to NEMA officials for feedback.
- The White Paper have been fully translated from Mongolian to Japanese and have been submitted to the JICA Expert Team for feedback.
- Price proposals from printing companies have been received and preparation for the printing work is underway.

7

Study Tour in Japan:

- The principal foundation for developing DRR plans is damage estimation.
- Real DRR goals and objectives are developed based on damage estimation.
- Disaster risk assessment results are included in the DRR plan.
- The participation of all relevant parties are included when developing the plan. The responsibilities of all relevant parties are specified and memorandums of cooperation with public and private entities are established.
- The DRR capacity of citizens, the public and volunteer organizations; as well as the contents and objectives of their activities.
- The organization and budget of temporary shelters.

8

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

I-DSIS

◆ Sub Working Group 1-5 Preparation of Juram (Guideline) of Spatial Database for Disaster Risk Reduction (SDDRR)

5th Joint Coordination Committee (JCC) Meeting
April 23, 2018

Ulaanbaatar city
2018

Topics: Development of Contract for Spatial Database Sharing

- We held joint working group meetings with Land Administration, Geodesy and Cartography (ALAGAC), and agreed to make a condition to share basic spatial database of Mongolia through WMS and WFS via e-services continuously. NEMA and ALAGAC has just signed a contract agreement.
- We are on the contract negotiation process with Urban Development and Master Planning Dep. of Capital City for data exchange and signing a contract agreement.
- Disaster research institute and MONMAP LLC signed on contract agreement for gathering historical record of high and mid resolution satellite images and update existing spatial database and WMS in NEMA.

Topics: Training for preparation of human Resource

- 50 staff from Central and Local Emergency Departments of NEMA participated in 2 days training "Utilization of Spatial Database for DRR in NEMA"
- Main purpose of training are below:
- To gain basic knowledge and skill of spatial database management and information sharing system operation for DRR
- To understand why spatial database management is needed and to discuss a better way to utilization of spatial database system in NEMA

Progress of Development of Juram (Guideline) & Operation Manuals

- For purposes to improve the draft juram (draft Guideline) of Spatial Database for Disaster Risk Reduction (SDDRR) and to include the idea of each specialist in charge of Communication & Alarm System of 21 aimags and EMDs, we distributed our draft juram to them and asked to submit their comments and feedbacks for this draft Juram. Completed to receive comments from regional EMD office at the 1st of April 2018. Now sub working group members working on comments and improving draft Juram Guideline.
- Translation task of the 10 technical manuals has been done 100%, and now its on the final step for checking.

	Нэг	Төрөл	2017						2018						Target period		
			11-12	1	2	3	4	5	6	1	2	3	4	5		6	
1		Juram (Guideline) for Operation and Management of Spatial Database for Disaster Risk Reduction (SDDRR)														40%	By June, 2018
2		Manual for install, set-up, development and operation. /One set/														100%	By June, 2018

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Simple Demonstration of Spatial Database
System for DRR



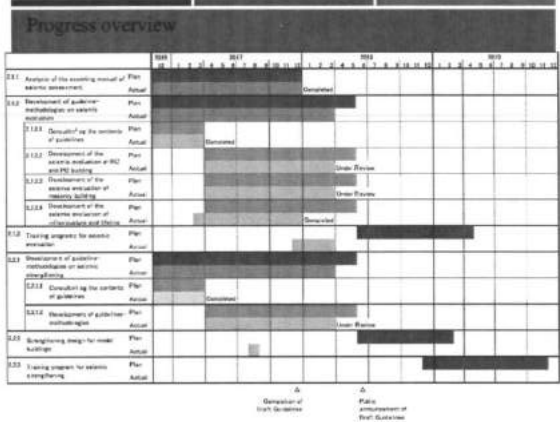
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Progress of WG2 Activity

1. Progress of overview and Guidelines
2. Selection of model buildings for seismic strengthening design
3. Training program of seismic evaluation
4. Future activity



Modification of Masonry building's guideline

A group meeting of masonry building was held on 01/26, 02/27 and the guideline was revised as follows.

- Added explanations and drawings about collapse in the in-plane and out-of-plane direction.
- Changed the reinforcement method 2 and added explanations and drawings.
- Changed the example of seismic diagnostic calculation in Appendix document 1.
- Explanations and drawings were added to the reinforcing member of reinforcement case 2.
- Submitted it to the Construction Development Center on 03/01.

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Modification of PC building's guideline

A group meeting of PC building was held on 01/09, 01/23 and the guideline was revised as follows.

- Added a drawing of rebar to be used when determining the strength of the horizontal joint.
- Added reinforcement of horizontal joint for reinforcement method 3.
- Calculation examples were added to reinforcement case 1 and 2 of the appendix material.
- Submitted it to the Construction Development Center on 03/01.

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1.80. Flow method for assessment	3

Modification of RC building's guideline

A group meeting of RC building was held on 01/08, 01/12, 01/26 and the guideline was revised as follows.

- Explanation and drawings were added to reinforcement methods 1, 2, and 3.
- Calculation examples were added to reinforcement cases 1 and 2.
- Submitted it to the Construction Development Center on 03/01.

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Earthquake risk assessment guidelines for infrastructure and lifeline

Completed the Earthquake Risk Assessment Guidelines for Infrastructure and Lifeline, and submitted the final version to the Ministry of Construction and Urban Development.

- On November 11, it was approved by discussion at the Respective professional council of the Construction development center.
- The science and technology committee of the Ministry of Construction Urban Development discussed and approved on December 12.



Selection of Model Buildings for Seismic Strengthening

Structure	Usage	Name	Location	Note
Masonry	Kindergarten	No. 105 Kindergarten	Songino Khaarkhan District	Constructed with standard design drawings
	School	No. 23 School	Chingeltei District	Large-scale school, based on standard design
	Public Office	NEMA	Sukhbaatar District	Public office necessary for emergency response
RC	Hospital	No.1 Gynecology Hospital	Sukhbaatar District	One of few RC hospital buildings
PC	Apartment House	9-Storey Apartment	Bayangol District	Apartment house, based on standard design

Training Program for Seismic Evaluation

Day	Time	Topic	Content
Day 1	08:00-12:00	Introduction of Seismic Evaluation	Overview of Seismic Evaluation, Importance of Seismic Evaluation, Seismic Evaluation in Design
Day 2	08:00-12:00	Seismic Evaluation of Masonry Buildings	Overview of Masonry Buildings, Seismic Evaluation of Masonry Buildings, Seismic Evaluation of Masonry Buildings
Day 3	08:00-12:00	Seismic Evaluation of RC Buildings	Overview of RC Buildings, Seismic Evaluation of RC Buildings, Seismic Evaluation of RC Buildings
Day 4	08:00-12:00	Seismic Evaluation of PC Buildings	Overview of PC Buildings, Seismic Evaluation of PC Buildings, Seismic Evaluation of PC Buildings
Day 5	08:00-12:00	Seismic Evaluation of Steel Buildings	Overview of Steel Buildings, Seismic Evaluation of Steel Buildings, Seismic Evaluation of Steel Buildings
Day 6	08:00-12:00	Seismic Evaluation of Composite Buildings	Overview of Composite Buildings, Seismic Evaluation of Composite Buildings, Seismic Evaluation of Composite Buildings
Day 7	08:00-12:00	Seismic Evaluation of Special Buildings	Overview of Special Buildings, Seismic Evaluation of Special Buildings, Seismic Evaluation of Special Buildings
Day 8	08:00-12:00	Seismic Evaluation of Infrastructure	Overview of Infrastructure, Seismic Evaluation of Infrastructure, Seismic Evaluation of Infrastructure
Day 9	08:00-12:00	Seismic Evaluation of Lifeline	Overview of Lifeline, Seismic Evaluation of Lifeline, Seismic Evaluation of Lifeline
Day 10	08:00-12:00	Seismic Evaluation of Urban	Overview of Urban, Seismic Evaluation of Urban, Seismic Evaluation of Urban
Day 11	08:00-12:00	Seismic Evaluation of Rural	Overview of Rural, Seismic Evaluation of Rural, Seismic Evaluation of Rural
Day 12	08:00-12:00	Seismic Evaluation of Special	Overview of Special, Seismic Evaluation of Special, Seismic Evaluation of Special
Day 13	08:00-12:00	Seismic Evaluation of Special	Overview of Special, Seismic Evaluation of Special, Seismic Evaluation of Special
Day 14	08:00-12:00	Seismic Evaluation of Special	Overview of Special, Seismic Evaluation of Special, Seismic Evaluation of Special
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Day 27	08:00-12:00	Seismic Evaluation of Special	Overview of Special, Seismic Evaluation of Special, Seismic Evaluation of Special
Day 28	08:00-12:00	Seismic Evaluation of Special	Overview of Special, Seismic Evaluation of Special, Seismic Evaluation of Special
Day 29	08:00-12:00	Seismic Evaluation of Special	Overview of Special, Seismic Evaluation of Special, Seismic Evaluation of Special
Day 30	08:00-12:00	Seismic Evaluation of Special	Overview of Special, Seismic Evaluation of Special, Seismic Evaluation of Special

Future activity

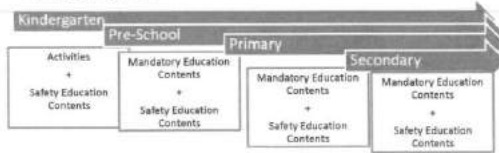
- Sample Seismic Evaluation
 - Required for approval by scientific committee of MCUD
 - Will be used in training course for seismic evaluation
- Preparation of Training Program for seismic evaluation
 - Texts and calculation tools
 - Nomination of lecturers
 - Confirmation of date, venue, and other logistic items

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Training for Working Group 3.1

- Date: March 5-9, 2018
- Result: Verified and improved the coherence of the contents of the training programs.



- The programs were improved on the basis of recommendations from external experts and were delivered to MECSS on March 12.
- The programs were approved through decree A/181 passed on April 6 by the Minister of Education.



Training for Developing Manuals

- Date: April 18-20, 2018
- Work Completed:
 - A matrix for coordinating the contents of the training (subject) and the contents of the "Safety Life Skill Program" has been developed.
 - The proposed methodology to be included in the manual for teachers implementing the "Safety Life Skill Program" has been developed.
- Work to be Completed:
 - Mock lessons in kindergartens and schools (May)
 - Finalizing the manuals (June-July)



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Activity Plan for Working Group 3.1



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Output 3-1: DRR Education for Schools Instructor Training

(Activity 3.1.3 Implement Training for the Instructors of Teachers)

Training Implementation Plan (Draft)

Location	Hovd Aimag (5 Aimag)	UB City 1 st Round (9 Districts, 3 Aimag)	UB City 2 nd Round (13 Aimag)
Training Contents, Preparation (WG Meetings)	April-August, 2018 September 5-8, 2018: Training Preparation Workshop		
Training (Participants: 3 people each from the 9 Districts of UB and the 3 Aimag for 3 days)	September 11-13, 2018	September 18-20, 2018	October 8-10, 2018
Training Evaluation, Developing the Draft Manual (WG Meetings)	October - December, 2018		

Training Contents (Draft)

- Elementary DRR Knowledge: Disaster mechanism, and basic concepts of DRR and methods to protect oneself from disasters
- Practice exercises: Methods for acquiring and transmitting general DRR knowledge and capabilities

Training Evaluation

- Studying the training evaluation methodology → Evaluation will be conducted upon completion of the training specified above.

10

Thank You for Your Attention!

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Progress of Sub-Working Group 3.2 Activities

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

April 23, 2018

Working Group Members of Output 3-2

Mongolian Side	Japanese Side
D. Munkhbat NEMA, Head of the Disaster Prevention Dept., Lieutenant Colonel	Yuko Ota (Ms.)
D. Bat-Endev NEMA, Senior Specialist Responsible for DRR Awareness-Raising, Lieutenant Colonel	Toshikazu Hiwaki (Mr.)
B. Chinbat EMDC, Senior Specialist at the Disaster Prevention Division, Lieutenant Colonel	N. Amargyal
D. Dulamsuren NEMA, Head of Public Relations, Lieutenant Colonel	Miki Kodama (Ms.)
S. Doljinesen Bayankhot-District Emergency Management Division, Specialist Responsible for Disaster Prevention, Senior Lieutenant	DRR Training 1: Yujin Ogawa (Dr.) Sajj Sawa (Mr.)
B. Uurlingepge EMDC, Teacher at the DRR Training Center	G. Dashdorj
B. Arunchimeg MECSS, Specialist at the Lifelong Education Center	Regional Specialists D. Adiyanyam / T. Bolomas

Working Group 3-2 Regional DRR Education

Progress of Activities

- Activity 3.2.1: Developing and improving the comprehensive DRR awareness-raising plan
- Activity 3.2.2: Developing DRR awareness-raising materials and organizing training in the selected regions
- Activity 3.2.3: Refining the training program of the EMDC DRR Training Center

> 2

WG3-2 Progress of Activities

Activities	Year	2017		2018		2019	
		Pl	Ac	Pl	Ac	Pl	Ac
Output 1:							
3.2.1 To develop comprehensive work plan for disaster risk reduction education and raising awareness of national and local levels	Plan	■	■				
3.2.1.1 To interview related organizations about coordination and cooperation	Actual	■	■				
3.2.1.2 To examine framework for NEMA to conduct integrated management	Plan			■	■		
3.2.1.3 To implement regular meetings	Plan			■	■		
3.2.1.4 To create a manual for the coordination and share information among the relevant organizations	Actual					■	■
3.2.2 To develop materials for the training on disaster risk reduction education and raising awareness, and implement the training for the target groups in pilot areas	Plan			■	■		
3.2.2.1 To review existing bodies of DRR education for communities	Actual					■	■
3.2.2.2 To discuss and develop training materials	Actual					■	■
3.2.2.3 To implement Training of Trainers workshop	Plan			■	■		
3.2.2.4 To implement workshops in the pilot areas	Actual					■	■
3.2.3 To develop and implement educational and training program for implementing disaster prevention and simulation program in Training Center	Plan			■	■		
3.2.3.1 To examine and consider a study program for the training center	Actual					■	■
3.2.3.2 To examine materials and equipment for improvement of training center	Actual					■	■
3.2.3.3 To support procurement of equipment	Plan			■	■		
3.2.3.4 To develop educational materials such as movie, exhibition, etc.	Actual					■	■
3.2.3.5 To operate training program	Plan			■	■		
3.2.3.6 To examine expansion to other regions	Actual					■	■

Activity 3.2.1 Developing and improving the comprehensive DRR awareness-raising plan

- A meeting was held on March 16, 2018 covering the following topics:
 - Discussing the "Regulation on Sounding the Disaster Alarm" and the "Regulation on the Mobilization and Transfer of People and Goods during Disasters" approved through government resolutions 339 and 340 of 2011;
 - Commemorating the Earthquake Disaster Prevention and Awareness-Raising Day;
 - Presenting the "BE READY" training package; and
 - Exchanging ideas on including the contents of the 4W sheet.



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Activity 3.2.2: Developing DRR awareness-raising materials and organizing training in the selected regions



In accordance with decree A-130 of the Head of NEMA which mentions "a 10-hour training program comprised of lectures and exercises for providing DRR knowledge to citizens"; the earthquake section of the "Be Ready" training package proposed by NEMA and World Vision Mongolia, and prepared in partnership with other organizations, has been developed based on Japanese experiences and methodological advice from the WG.

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Training Program for Providing DRR Training to Citizens

Topic	Sub-Topic	Unit Hours		Total Hours
		Lectures	Exercises	
General Understanding of Emergencies, Accidents, Disasters and Disaster Risk		1	1	2
Ensuring Disaster Preparedness at Home, Risk Reduction Methods (Per Disaster Type)			5	5
First Aid and Resuscitation		1	1	2
Citizen Participation in Regional DRR Activities		1		1
Total		3	7	10

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Activity 3.2.2: Developing DRR awareness-raising materials and organizing training in the selected regions

During the WG meeting of February 1-2, 2018, the practice-based training following the classroom training of the "Be Ready" program is planned to be conducted based on Japanese experience in the form of a relay race titled "**Anyone is Ready Anytime and Anywhere**". The procedure of the race as well as a list of the required equipment have been developed.



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Test Regions Proposed by Activity 3-2-2 (Regional DRR Education)

	Proposed Region	Reason for Selection
1	UB City (Center) Bayangol District	District contains several new, old, tall and short buildings. Location: Western Side of UB.
2	UB City (Ger Districts) Bayanzurkh District	District contains several dense Ger Districts. Location: Eastern Side of UB.
3	Rural Area Zavkhan Aimag	High probability of earthquakes, low degree of overlap with activities of other support programs.

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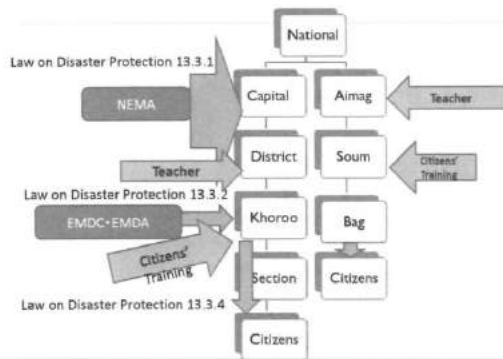
Activity 3.2.2: Developing DRR awareness-raising materials and organizing training in the selected regions

A total of 50 teachers for the "**Anyone is Ready Anytime and Anywhere**" program have been prepared in the target areas of the Project, including 15 volunteer teachers from Zavkhan aimag, and the capital's Bayangol and Bayanzurkh districts; as well as 10 people from Uliastai and Otgon soum of Zavkhan, the 23-rd khoroo of Bayanzurkh district, the 2nd khoroo of Bayangol district, the administrations of aimags and districts, and lifelong learning centers.

Training was held on the following dates.

- Bayanzurkh and Bayangol Districts: March 21
- Zavkhan Aimag: March 26

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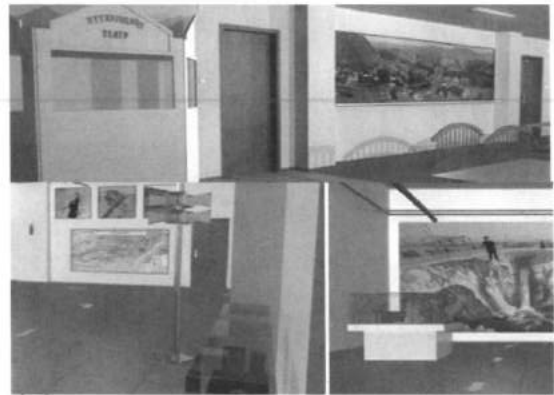
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Activity 3.2.3: Refining the training program of the EMDC DRR Training Center

On February 1 and 2, the WG has discussed ways to improve the DRR Training Center's training materials and equipment.

During these meetings, we have discussed the training materials and equipment (to be supported by the JICA Project) for the room for young children and the earthquake experience room, as well as other related topics.



Working Group 3-2 Regional DRR Education

Current Obstacles

-The information of organizations, sponsors and related entities that conduct DRR awareness-raising activities are being compiled in the 4W format on an experimental basis

Further Plans

- The teachers who have attended training are planning to organize a training session for citizens according to the schedule below.

Location	Soum, khoroo	Date	Soum, khoroo	Date
Zavkhan almag	Otgon soum	May 12	Uliastai soum	May 14
UB City	BGD, 2 nd khoroo	May 17	BZD 23 rd khoroo	May 19

-Developing the guideline for the DRR relay race

-Refining the training program and bulletin board of the DRR Training Center

14 -The relevant preparation work for the procurement of the earthquake experience platform (around November 2018)

THANK YOU FOR YOUR ATTENTION!

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Annex 4: Working Group Member List

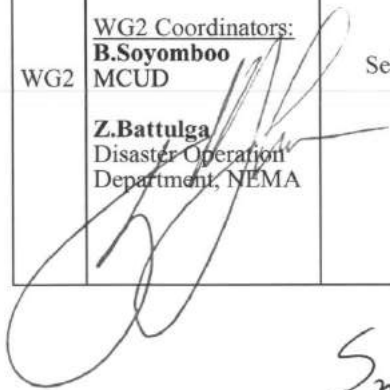
“THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA”

5th Joint Coordination Committee (5th JCC)

Date: April, 23rd 2018

Working Groups

Working Group (WG)		Sub-WG	Member
WG1	Disaster Management Plan WG1 Coordinator: D.Bazarragchaa Disaster Risk Management Department, NEMA	Risk Assessment Guideline	D.Serjmyadag Disaster Research Institute, NEMA P.Amarzaya Disaster Research Institute, NEMA D.Bazarragchaa Disaster Risk Management Department, NEMA B.Batbayar Disaster Risk Management Department, NEMA B.Khishighbaatar Disaster Operation Department, NEMA S.Bazarragchaa Disaster Research Institute, NEMA
		Disaster Management Planning Guideline, Preparedness Planning Guideline and Risk Management Guideline	B.Bayanmunkh Policy Coordination and Cooperation Department, NEMA B.Myagmardorj Disaster Operation Department, NEMA Ch.Otgontugs Fire Department, NEMA E.Batbayar EMDC A.Dashnyam EMDC Ts.Turbileg Disaster Operation Department, NEMA
		Agreements	B.Duvshin Disaster Risk Management 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 Disaster Research Institute, NEMA B.Boldkhuu Disaster Operation and Early Warning Command Center, NEMA
WG2	Seismic Resistance WG2 Coordinators: B.Soyomboo MCUD Z.Battulga Disaster Operation Department, NEMA	Seismic Diagnosis of Buildings	B.Soyomboo MCUD Z.Battulga Disaster Operation Department, NEMA N.Ganchimeg General Agency for Specialized Inspection B.Tsend-Ayush Master Planning Agency of Capital City, Construction Quality and Safety Department G.Saruultuya Construction Development Center T.Galbadrakh Finance and Logistics Department, NEMA G.Erkhembayar MCUD B.Gantulga



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Working Group (WG)		Sub-WG	Member
			Land Management, Geodesy and Cartography Agency, MCUD
		Seismic Diagnosis of Infrastructures and Lifelines	B.Soyomboo MCUD Z.Battulga Disaster Operation Department, NEMA N.Ganchimeg General Agency for Specialized Inspection B.Munkhsaikhan General Agency for Specialized Inspection G.Erkhembayar MCUD B.Gantulga Land Management, Geodesy and Cartography Agency, MCUD
		Design for Seismic Strengthening	B.Soyomboo MCUD Z.Battulga Disaster Operation Department, NEMA N.Ganchimeg General Agency for Specialized Inspection B.Tsend-Ayush Master Planning Agency of Capital City, Construction Quality and Safety Department G.Saruultuya Construction Development Center G.Erkhembayar MCUD B.Gantulga Land Management, Geodesy and Cartography Agency, MCUD 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 ITPD D.Munkhbat Disaster Prevention Department, NEMA L.Munkhehimeg Disaster Prevention Department, NEMA G.Enkhtsolmon Disaster Prevention Department, NEMA
		Community DRR Education	D.Munkhbat Disaster Prevention Department, NEMA D.Bat-Erdene Disaster Prevention Department, NEMA B.Uuriingegee EMDC B.Chinbat EMDC D.Dulamsuren Public Information Center, Disaster Prevention Department,



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Working Group (WG)		Sub-WG	Member
			NEMA S.Doljinsuren EMDC B.Ariunchimeg National Center for Long life Education



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Annex 5: Record of Question and Answer in the 5th JCC Meeting

1. Amendment of Working Group Member

Comment: Ms. Bazarragcha, NEMA:

Let us discuss the topics according to the meeting procedure. As a result of change in positions, Colonel Dashnyam will be replaced by someone else. Furthermore, there is a change in the team composition of WG3. Are there any comments on the changes in WG members?

Comment: Mr. D. Batsaikhan, NEMA:

Major Myagmardorj may potentially replace Colonel Dashnyam. Currently, we are expecting an official letter from the Anti-Corruption Bureau.

It is understandable that new member will be nominated for Myagmardorj. As for WG3-1, Mr Enkhtsolmon has joined WG, then there is no objection on it.

Comment: Ms. Myagmar, MECSS:

Even though the WG3-1 is working on activities geared towards essential results and methodologies for DRR education, I wish no changing member from NEMA any more in a stable manner.

2. Schedule of Installing Equipment

Comment: Mr. Hosokawa, JICA:

The supply of equipment from the Japanese side has faced a delay due to budget issues. In response to the concerns about equipment for seismic diagnosis raised by General Badral, we plan to conduct the training in June with the equipment that are available from Master Planning Agency of Capital City or other.

Question: Ms. Jargal, GASI:

I would like to clarify two things. Firstly, will the exact equipment we have planned for arrive? Is there a deadline for the arrival date?

Secondly, I believe that training on how to use the equipment is very important. How will we obtain information?

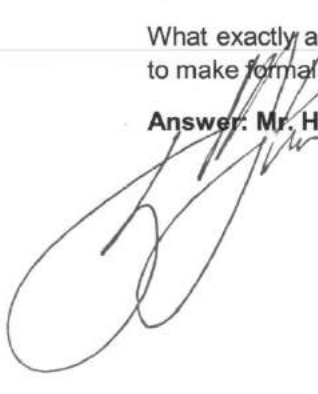
Answer: Mr. Hosokawa, JICA:

There is no change in the quantity and type of equipment to be supplied to Mongolia. However, we are currently unable to fix a final date for the arrival of the equipment. We are planning to conduct special training on how to use the equipment soon after procurement of the equipment.

Question: Ms. Enkhtuya, Master Planning Agency of Capital City

What exactly are the equipment that we may use for the June training? We may need to make formal requests to our officials in order to use them.

Answer: Mr. Hosokawa, JICA:



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Understood.

Comment: Mr. Jargalsaikhan, National Security Council:

I would like to request that we receive Project materials ahead of the meeting. Otherwise, when meetings are suddenly announced, we don't have the opportunity to properly prepare our questions.

Comment: Mr. Hosokawa, JICA:

In terms of the equipment of earthquake simulation experience to be supplied within the framework of the Project, the supplier has been determined last month.

The supply of the equipment is planned in October of this year. There is also the issue of discussing the contents of the video shown during the earthquake experience and the type of earthquakes to be experienced, and I'd like to ask the Mongolian side to cooperate with us on this matter.

In addition to this, I'd like to ask for replacement of existing equipment in order to install the new equipment.

Comment: Mr. Owada, JICA Expert Team:

In addition to the operation and maintenance plan of the equipment that agreed in 3rd JCC, last year, the safety fence and steps will need to be installed, and also portal crane and hand lift jack are needed to assemble the equipment. I would like to request the preparation of those.

Comment: Mr. Batsaikhan, NEMA:

The installation plan of the equipment and the relevant preparation work is underway. We will take your comments into account in our activities.

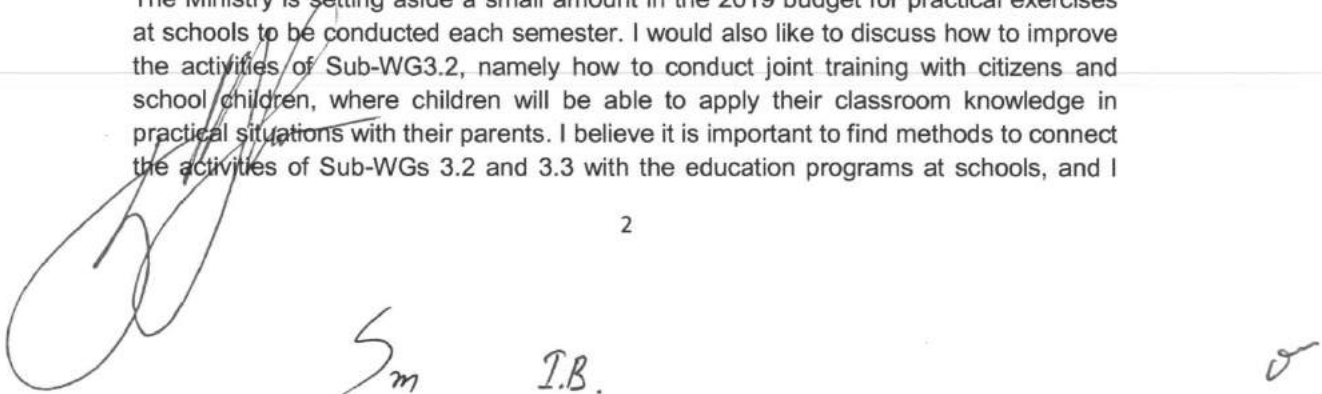
3. Pilot Areas for DRR Education and Awareness Activities

Comment: Ms. Bazarragchaa, NEMA:

Two soums in Zavkhan aimag and two districts in UB have been selected. Are there any questions or comments on this?

Comment: Ms. Myagmar, MECSS:

On April 6th we have approved the DRR education programs for kindergartens and schools through a ministerial decree. I believe we need to pay attention to real outcomes of the citizens' DRR training in soums and the DRR education in schools and kindergartens, and how to connect their activities. The DRR education programs were developed in detail taking into account the preparation of teachers for extra-curricular activities. However, our main concern is that classroom-based training is not enough and doesn't provide real training on how to help oneself and others during disasters. The Ministry is setting aside a small amount in the 2019 budget for practical exercises at schools to be conducted each semester. I would also like to discuss how to improve the activities of Sub-WG3.2, namely how to conduct joint training with citizens and school children, where children will be able to apply their classroom knowledge in practical situations with their parents. I believe it is important to find methods to connect the activities of Sub-WGs 3.2 and 3.3 with the education programs at schools, and I

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urge the cooperation of WG3, the regions, and even NEMA in this matter. Otherwise, just a classroom training program approved by the Ministry of Education will not be very effective. There is a need to convert classroom knowledge into effective, practical habits. I also wish that the relevant parties work to include people from the education sector of the test soums and expand the circle of cooperation to other entities; for example, the role of traffic police in disaster situations.

Question: Major General Badral, Head of NEMA:

I would like to ask a couple of questions. Could the "Safety Life Skill Program" be approved by the Minister of Education be adopted at the national level? World Vision also has a similar program and there is the issue of which one to choose.

Answer: Ms. Myagmar, MECSS:

Only programs approved by the Minister of Education will be adopted at the national level. Other programs from World Vision, the Red Cross etc., are not officially adopted. I would like to clarify that our WG has studied the World Vision program and other programs to determine what contents may be included in our program. We have tried to adapt the contents to Mongolian conditions.

Question: Major General Badral, Head of NEMA:

Since the World Vision program is a very good one, can we obtain the approval of the Minister of Education?

Answer: Ms. Myagmar, MECSS:

Education programs for schools are difficult to adapt to residents. I believe it would be more effective to issue a joint decree between the Minister of Education and the Deputy Minister for this matter.

Question: Major General Badral, Head of NEMA:

Who will approve the guidelines of earthquake disaster risk evaluation developed by the WG1?

Answer: Ms. Bazarragchaa, NEMA:

The guidelines will be approved by the Deputy Minister through government resolution 67 of 2018. The guideline for each disaster type are being developed.

Question: Major General Badral, Head of NEMA:

Is there a possibility to develop a TOR containing the I-DSIS (Internet-based Disaster Spatial Information System)? Since we urgently require the approval of the I-DSIS manual and organize the relevant training sessions, please finish developing the manual as soon as possible. We also need to urgently prepare the four new officials who are to be appointed. I would also like to raise the issue of purchasing a server.

Answer: Mr. Bayarbaatar, NEMA:

In terms of the Sub-WG 1-5 in charge of developing guideline for SDDRR (Spatial Database for Disaster Risk Reduction), four officials are being reviewed and will be presented to the Board of Directors this week. The I-DSIS manual has been developed

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and is now in the translation stage. The number of required officials and their positions have been submitted to the Human Resources Division of the Administrative Department. In terms of the server, it has been installed at the National Data Center and is ready to accept data.

Answer: Mr. Ankhbileg, JICA Project Team:

We have updated the old server in EWC (Early Warning Center) and have not purchased a new one. I heard NEMA is supposed to purchase a server.

Comment: Major General Badral, Head of NEMA:

We have put forth a proposal to purchase a new server through an Asian Development Bank project and I'd like to ask you to resolve this matter with the NEMA's Policy Coordination and Cooperation Department.

Since our Project is halfway done, I urge the members to catch up on late work.

There are a lot of duplications in the White Papers and I would like to ask to review them. I also urge the members in charge to hasten the work to be approved by the Minister of Construction and Urban Development. Also, it would be good if all the documents are approved as the Project progresses. Likewise, I would also like to urge those in charge of the agreements to quickly contact the relevant ministries and hasten their work. Because we would like to present them during the AMCDRR in July.

Since we will be using the Spatial Database and I-DSIS in the future, please quickly complete the approval processes that are required from the relevant ministries.

Also, we don't want to extend the deadline for the procurement of equipment again so please pay attention to this matter.

Question: Ms. Jargal, GASI:

I heard from WG2 that evaluation is being conducted on five candidate buildings. I would like the WGs to provide us with more transparent information on how the evaluations are being conducted, what results are being achieved, and what are the further measures to take. Secondly, I would like the equipment to be used in the June training to be the same as the four or five equipment to be supplied to us. Thirdly, since the implementation of construction guidelines are conducted by inspectors in rural areas, I also would like to include inspectors in charge of the guidelines for buildings and infrastructure lifelines in the June training. The implementing inspectors will also need to obtain information on the equipment and guidelines.

Answer: Mr. Owada, JICA Expert Team:

The equipment for the June training will be procured for temporary use from the capital city and the University of Science and Technology. However, there is no equipment to measure corrosion available in Mongolia and therefore, when the corrosion-measuring equipment arrives within the scope of the Project, we will organize a special training for this equipment. In response to the issue of involving GASI inspectors in the June training, I understand that we are able to input a lecture in training program that will be organized by GASI for inspectors.

Question: Ms. Jargal, GASI:

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There will not be enough time for that. Since GASI inspectors will be implementing the guidelines, I would like them to be fully informed on how to effectively carry out their tasks, such as how to use equipment, how to conduct evaluations etc.

Answer: Mr. Fukushima, JICA Expert Team:

The June training is primarily related to the passport certification, and since GASI conducts examinations after the passport certification process, the June training is directed at providing not only GASI but also other organizations for understanding of the passports. GASI representatives may attend the training and then provide information to other inspectors afterwards. We believe in reality there is not much possibility to include a large number of participants in the June training.

Comment: Mr. Jargalsaikhan, National Security Committee:

The main purpose of the JCC meeting is to ensure the coordination of Project activities, provide support to these activities and to strengthen the relations of related organizations. We would like to request the information beforehand.

In terms of the guidelines for the regional DRR plans, although they are primarily aimed at aimags and soums, I believe that there are a lot issues at the bag and khoroo level. Bag and khoroo officials are more involved in day-to-day operations and providing information, and are the first to gather people in the event of a disaster. Therefore, I would like to propose developing a guideline for a "1 bag, 1 khoroo" DRR plan. Even if citizens have no information of disaster, they will have a much better understanding and knowledge how act in disasters if they have a plan..

Question: Major General Badral, Head of NEMA:

There are over 330 soums in Mongolia. Their population ranges from 20-30 to over a thousand. Is there a possibility to increase the number of soums? I believe the current number of soums are too low and I propose to increase the number to at least 5.

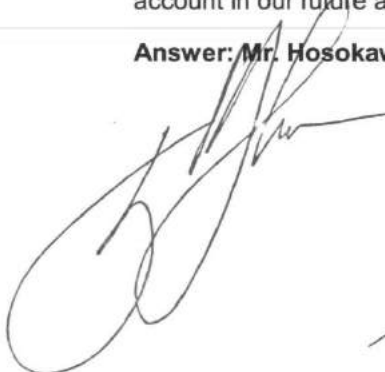
Since GASI inspectors always conduct on-site activities, I urge you to take into account the comments of Jargal.

Furthermore, taking into account the concerns of Mr. Sato, we will strive to continue our activities unimpeded during the AMCDRR.

Answer: Mr. Owada, JICA Expert Team:

In terms of the coordination of activities between working groups, the activity of WG1 is developing the guideline for Aimag and Soum earthquake disaster protection plan in consideration of WG3 activities as on-site duties. Also in terms of WGs 1 and 2, WG1 is carrying out their activities for preparation of the earthquake risk assessment guideline based on the earthquake risk evaluation methods developed by WG2. Regarding the comment from Mr. Jargalsaikhan, we will take his comment into account in our future activities.

Answer: Mr. Hosokawa, JICA Expert Team:



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In response to Mr. Jargalsaikhan, according to R/D, the JCC meeting is to discuss the orientation of the project's activities. However, since the time of JCC meetings is limited, the opportunity of Steering Committee meetings should be utilized to discuss some issues and challenging for ordinary activities. In response to General Badral, taking into account the R/D, which states the number of soums as 2-3, as well as the time and budget we have left, we're afraid that it would be impossible to expand the number of soums. In terms of including GASI inspectors, we believe it would be more effective for the few representative participants to explain the content of the training to the relevant parties afterwards.

Comment: Ms. Bazarragchaa, NEMA:

The topics discussed will be included in the Project documentation. Now let us set a date for the next JCC meeting.

Comment: Mr. Batsaikhan, NEMA:

We are planning to hold the next JCC meeting in September. If there are no objections, we will specify the exact date later on.

Comment: Ms. Bazarragchaa, NEMA:

To summarize the contents of today's discussion:

There have been changes in the composition of WG members.

The Mongolian side wishes that the equipment be supplied within the planned date with no delay, if possible.

WG3 has presented a new proposal to improve the coherence of training programs. The coherence between the World Vision training package and the training programs of WG3.1 will be considered.

In terms of the training program of WG2, another training session will be conducted after the June training with new equipment.



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

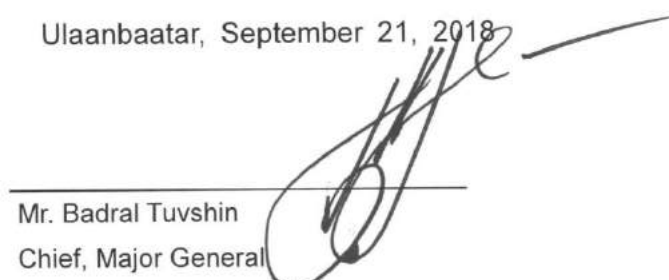
Joint Coordinating Committee (hereinafter referred to as "JCC") for the Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia (hereinafter referred to as "the Project") held its sixth meeting on September 21, 2018 from 11:00 to 12:40, at Conference Room of National Emergency Management Agency (hereinafter referred to as "NEMA"), Ulaanbaatar, Mongolia, chaired by Mr. Ulziibayar Luvsansharav, Director of Policy Coordination and Cooperation Department and Lieutenant Colonel 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, September 21, 2018



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



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



Mr. Kiyotaka Owada
Team Leader
JICA Expert Team
Japan



Mr. Batkhuy 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 fifth JCC on April 23, 2018 in order to respond to changes in members' positions and conduct more effective WG activities. And then, Mongolian side promised to nominate new members immediately if successors of withdrawal from WG members have not been nominated yet. JCC members agreed about the amended member list of WG as shown in the Annex 4.

3. Progress of Procuring Equipment

Japanese side explained that the preparation for shipment of the equipment of earthquake simulation experience has been underway and the arrival date of the equipment at the Ulaanbaatar station is scheduled on October 19, 2018, the installation of equipment will be commenced on November 5, 2018. Japanese side requested that Mongolian side should complete construction works including drainage water disposal and essential countermeasures against further inundation, and all advance preparations necessary for installing the equipment at the Disaster Protection Training and Methodology Center by October 5, 2018.

Mongolian side accepted this request and promised to handle appropriate preparations and responses for installing the equipment and to make necessary measures with adequate construction management to prevent inundation at the area where the equipment will be installed.

Regarding the equipment for seismic diagnosis, Japanese side explained that the timing for procurement of the equipment will be around early November, 2018, and the usage guidance of new equipment is going to be conducted after this procurement.

Mongolian side mentioned that the implementation method of guidance of the equipment shall be discussed in the activity of WG2.

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4. Next JCC meeting

The Mongolian side will consider that the next JCC will be scheduled on the third or fourth week of January, 2019 and notify related organization.

5. 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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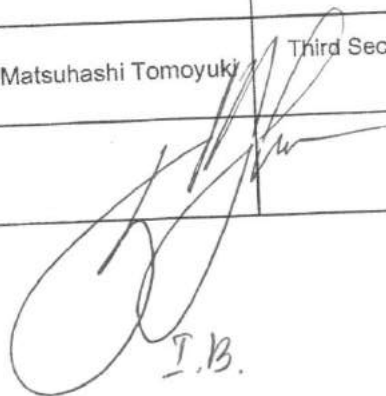
**"THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY
OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA"**

Date: 2018/9/21

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 6th Joint Coordination Committee (6th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
T.Badral	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.Ulzilbayar	Director, Policy Coordination and Cooperation Department, NEMA	ulzii0609@ csc.mn	
D.Jargal	Director, Infrastructure and State Inspection Department, General State Inspection Agency	d.jargal@ yahoo.com	Jargal 21/9
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		
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	g.enkh@yahoo. com	
Eriko Tamura	Senior Representative, JICA Mongolian office	tamura.eriko @jica.go.jp	田村 利子
Satomi Yoshino	Project Formulation Advisor, JICA Mongolian Office	yoshino.satomi@ jica.go.jp	吉野 聡美
Matsuhashi Tomoyuki	Third Secretary, Embassy of Japan in Mongolia		



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

Date: 2018/9/21

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 6th Joint Coordination Committee (6th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
Khurelbaatar	НОБГ, НИХЦАСТӨБ		
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Osamu NISHII	JET	nishi@oyointer.com	西井 理
Kyotaka	JET		
Akihiko	JET	fuwata@ogkpa.jp	

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

Date: 2018/9/21

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 6th Joint Coordination Committee (6th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
Toshitaka Hiwaki	JET	hiwaki@ocgl-tai.com	
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Б. Наранбат	JET	bnaranbat@yahoo.com	

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**“THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY
OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA”
Agenda for 6th Joint Coordination Committee (6th JCC)**

Date: September, 21st 2018

Time: 11:00~12:40

Venue: NEMA Conference Room

No.	Time	Agenda	Presenter
	10:50-11:00	Registration	
1	11:00-11:10 (10 min)	Opening remarks from NEMA	<i>Mr. Badral Tuvshin Chief, Major General, NEMA</i>
2	11:10-11:20 (10 min)	Opening remarks from JICA	<i>Ms. Eriko Tamura Senior Representative, JICA Mongolia Office</i>
3	11:20-11:25 (5 min)	Overview of project activity and schedule	<i>Mr. Kiyotaka Owada Team Leader, JICA Expert Team</i>
4	11:25-11:40 (15 min)	Progress of WG1 Activity	<i>D. Bazarragchaa Disaster Risk Management Department, NEMA D. Sodnomragchaa Spatial Information and Technology Division, NEMA</i>
5	11:40-11:55 (15 min)	Progress of WG2 Activity	<i>O. Bayarbaatar Ministry of Construction and Urban Development</i>
6	11:55-12:10 (15 min)	Progress of WG3 Activity	<i>G. Mongolkhatan Education Research Institute, MECSS B. Chinbat EMDC</i>
7	12:10-12:30 (20 min)	Discussion and confirmation on: - Amendment of Working Group Member - Progress of Procuring Equipment - Schedule of Next JCC - Others	<i>Project Coordinator, NEMA Discussion with All Participants</i>
8	12:30-12:40 (10 min)	- Closing remarks	<i>Mr. L. Ulziibayar Director of Policy Coordination and Cooperation Department, NEMA</i>

D.B.

PROGRESS of WORKING GROUP 1 ACTIVITIES

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

THE 6TH JOINT COORDINATION COMMITTEE MEETING

Working Group 1-1: Disaster Risk Assessment Guideline

- Comprehensive Earthquake Disaster Risk Assessment Guideline has been drafted with the following content:
 1. Introduction
 - 1.1. General provisions
 - 1.2. The purpose of this guideline
 - 1.3. Scope of the guideline
 2. The theoretical background of disaster risk assessment
 - 2.1. Disaster risk assessment
 - 2.2. Process of disaster risk assessment
 3. Methodology for general assessment of seismic risks
 - 3.1. Terms used in the guideline
 - 3.2. General methodology of earthquake risk assessment
 - 3.2.1. Review the earthquake risks
 - 3.2.2. Analyze the earthquake risks
 - 3.2.3. Evaluate the earthquake risks
 4. Develop recommendations
 5. Include the risk assessments in the disaster protection plan
 6. Prepare the earthquake risk assessment report
- In Umnugovi and Darkhan-Uul provinces, which were selected as pilot provinces for developing the disaster protection plan, the training sessions of its planning were held. Participants of the training tried to do the earthquake risk assessment required for disaster protection planning and calculated potential damages.

Working Group 1-1: Earthquake Risk Assessment Guideline

Activity plans

- To identify a structure for Detailed Earthquake Disaster Risk Assessment and to draft this guideline.
 - ✓ The first draft is scheduled for completion in the third week of December 2018.
 - ✓ The content of the management and organization of the detailed risk assessment will be discussed by the Working Group in the context of the relevant legislation and Mongolian situation.
- JICA's experts team offered professional recommendations with regards to the technical issues and contents of the detailed risk assessment.

Working Group 1-2: Guidelines for Earthquake Disaster Protection Planning

Activity progress

Training on how to prepare earthquake disaster protection plan in the pilot provinces and city districts

- | | |
|---|---|
| Provinces
➤ Umnugovi – May 16-17, 2018
➤ Darkhan-Uul – May 16-17, 2018 | City districts
➤ Bayangol – August 28-29, 2018
➤ Chingeltai – August 28-29, 2018 |
|---|---|

➤ The schedule of preparation work of provincial earthquake disaster protection plans at pilot provinces shall be discussed and set up.
 ➤ The drafted Almag / Soum Earthquake Disaster Protection Planning GL will be modified and updated based on the feedbacks from the member of preparation work of provincial earthquake disaster protection plans.

➤ The planning process for the districts already started based on the drafted Capital City / District Level Earthquake Disaster Protection Planning GL.
 ➤ The officers of Emergency Management Department in pilot districts are now preparing their comments and proposals toward the drafted planning GL.

Working Group 1-2: Guidelines for Earthquake Disaster Protection Planning

Activity process and future plans

- The drafting process of National Earthquake Disaster Protection Planning GL and Safe Earthquake Disaster Protection Service Planning GL are in the finalization process.
- For developing the earthquake disaster protection plan of Darkhan-Uul province, provincial working group have been nominated to be in charge for formulating the plan at the workshop in September 18-19. And also this group discussed and scheduled future activities for completion of the earthquake disaster protection plan by September 2019.
- It is scheduled that the workshop for formulation of the earthquake disaster protection plan of Umnugobi province will be held on September 26.
- It is also planned that the workshop on September 25th for upgrading the drafted Capital City / District Level Earthquake Disaster Protection Planning GL by reflecting feedbacks from the member of preparation work which consists of officers of Emergency Management Divisions of Bayangol and Chingeltai Districts, EMDC and NEMA and for preparing the further work schedule.

Working Group 1-3: Agreement

Other agencies	To be signed by	Entering into the Memorandum of Understanding and future plans
Food Supply	Ministry of Food and Agriculture + NEMA	The State Secretary of MFA signed the Memorandum on June 21, 2018, and presented it back to NEMA, two Department heads at NEMA already signed it as well, now anticipated is signature of Mr. Badral, NEMA Director (as of 2018/09/20)
Pharmaceuticals, personnel and medical equipment	Ministry of Health + pharmaceutical companies	2018/07/17: MoH submitted additional comments to NEMA 2018/09/03: Ministry of Health submitted a request to the NEMA about their proposals 2018/09/12: WG had the latest meeting with the Health Ministry and pharmaceutical companies on September 12th and it was agreed that the memorandum will be signed within October
Temporary shelter, temporary accommodation	Ministry of Construction and Urban Development + NEMA	MCUD suggested some amendments to the draft presented by NEMA in 2-3 articles (on 2018/07/16) Draft memorandum to be signed with MCUD is being discussed and planned to be ready by end of September, 2018 (as of 2018/09/20)

I.B.

G.M.

Working Group 1-3: Agreement

Other agencies	To be signed by	Entering into the Memorandum of Understanding and future plans
Roads and Transportation	MRT + NEMA	MRT already received the draft Memorandum that was prepared in October 2017. Due to changes of the relevant officials at MRT, their response is being delayed (2018/09/03) Next MRT and our WG meeting is planned for 24th of September (as of 2018/09/20)
Fuel and petroleum	Minerals and Petroleum Resources Authority + NEMA	The draft Memorandum with Minerals to be signed with MRPAM is ready. NEMA and MRPAM will hold lecture training about the Japanese experience and the best practices of implementing such memorandums (2018/09/20)
Communication and Information Technology	NEMA-Communication and Information Technology Agency -private provider	The draft Memorandum with Communication and Information Technology Agency is ready; discussions on entering into MoU is going on with private provider "Unitel"
Temporary shelter	NEMA, Capital City EMA and City Mayor's Office	The draft Memorandum between these agencies is being discussed, especially in relation with the ongoing construction of the school building financed by Japan where a sports hall of this school would be used as a temporary shelter during disasters.

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Working group 1-4: White Paper

1. Working Group members

- O.Tsend-Ayush—BZHAG specialist, lieutenant
- Osamu Nishii --Project specialist
- Sh.Boldbaatar --Project consultant
- Shiro Makita -- Project specialist
- Ya.Erdenebat -- Project translator

The Working Group's purpose is to develop the first White Pages for disaster protection in Mongolia, which is equivalent to Japan's White Pages.

2. Working group meeting

- Sub-working group meetings -- 3 times
- Discussion with JICA Expert Team -- 4 times

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Working group 1-4: White Paper

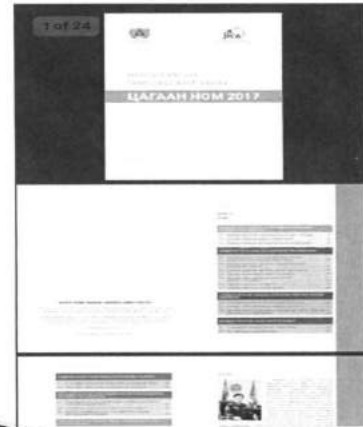
1. The process of developing a White Paper

- May 30th: The Mongolian and English version of the White Paper have been completed.
- Early in July: The summary of White Paper (English version) have been completed.
- July 8th: the summary of White Paper have been printed by 800 copies and distributed during the AMCDRR.
- End of August: Design and contents have been added on the Mongolian version of the White Paper.

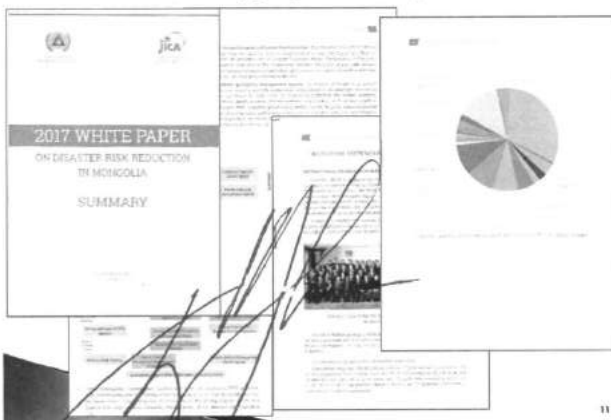
2. Current situation

- Recently NEMA is revising the final version and added a minor revision of photos, designs and contents.
- Printing order of the White Paper is scheduled after the final review.

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Working group 1-4: White Paper



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Working group 1-4: White Paper

Activity plans

Based on the lessons learned and experiences obtained throughout the preparation work of the 2017 White Paper, the draft "Manual on Preparing the White Paper on Disaster Risk Reduction" will be prepared by October 15, 2018. The manual will be further developed to ensure that the WGs would be able to use the White Paper effectively.

Structure of

"Manual on Preparing the White Paper on Disaster Risk Reduction"

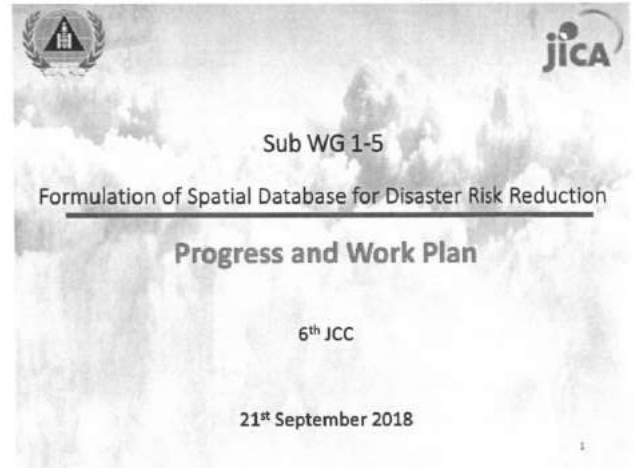
- FOREWORD
- STRUCTURE and CONTENT of White Paper
 - Chapter 1. Analysis of the disaster situations in central and local areas
 - Chapter 2. Report on Disaster Protection Activities of 2018
 - Chapter 3. Updates and Highlights
 - Chapter 4. Lessons and Conclusions
 - Chapter 5. Suggestions and recommendations
 - Appendix
- PREPERATION TEAM
 - Spatial Information and Technology Davison, Disaster Operation and Early Warning Command Center, NEMA
 - Disaster Prevention Department, NEMA
- COMMENTS AND RECOMMENDATIONS

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S.M. or

Working group 1-4: White Paper

- For discussing further action plan in consideration of all outcomes for each Sub Working Group, integrated meeting of working group 1 will be held on 24th of September.



Major Topics:

Establishment of New Management Team

- Spatial Information and Technology Division established under EWC, NEMA

(According to order No B/442 by Head of NEMA in 28th May 2018.)



Major D. Sodnomragchaa /Head of division/



First Lieutenant D. Byambatsogt /Spatial database specialist/



First Lieutenant T. Ulambaatar /Geographic information technology and system engineer/



Lieutenant L. Otgonbayar /Spatial database gathering, registration, statistical survey specialist/

Major Topics:

Preparation of New Juram (Guideline) for Operation and Management of Disaster Spatial Database using I-DSIS

I-DSIS: Internet-based Disaster Spatial Information System

- Juram (Guideline): 70% is completed. Draft Guideline try to be finalized by November 2018 and introduce it into the Board of Directors Meeting for approval.
- Manuals (Annexes of Juram): Basic Operation and Management Manuals for I-DSIS was Completed. Other technical parts such as Database Design are still under preparation.
- System and Database: Technically I-DSIS is well prepared and ready to utilize in NEMA. Daily-based Incident Management System (text) and I-DSIS (map) both managed by Early Warning Center (EWC). Members of SWG highly concern on linkage between both system. Both System are being upgraded so that it will be possible to gather and accumulate disaster incident data directly utilized for indicators to monitor progress and achievement against Global Targets of Sendai Framework for DRR from Regional Emergency Management Offices.



Exiting Status and Work Plan for SubWG-1-5

Name of Activities	Existing Status (As of September 2018)	Plan for the Next Quarter (by Next December)		
		Oct.	Nov.	Dec.
1 Preparation of Guideline with Annexes	<ul style="list-style-type: none"> Draft Guideline: 70% Completed. Technical Manuals and Existing System & Database is upgraded. 	<p>Aiming at approval at the Board of Directors Meeting</p>		
2 Make Agreements to Data Exchange with DRR related Organization	<ul style="list-style-type: none"> With ALAGAC: Already made an agreement. With Master Planning Agency (MPA) of Capital City: Under negotiation. With Other organizations: To be prepared. 	<p>Aiming at making agreement with MPA</p>		
3 Development of Better Working Procedures and Utilization of Spatial Database for DRR in NEMA	<ul style="list-style-type: none"> Establishment of New Division. OJT of I-DSIS management is being conducted from June 2018 for newly established division. 	<p>Continuing</p>		

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Spatial database for Disaster risk reduction development progress
NEMA.GOV.MN



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Sub-WG 2-2: Seismic Diagnosis of Infrastructures and Lifelines
Training of Seismic Evaluation

- In collaboration with the MCUD, NEMA, GASI, and CDC, organized a One-day training course on "Seismic evaluation of Infrastructures and Lifelines" on 2018.06.07.
- 70 people including inspectors of GASI and prefectural officers of infrastructure were participated.



Sub-WG 2-3: Design of Seismic Strengthening
Nomination of Model Buildings

Structure	Usage	Name	Location	Note
Masonry	Kindergarten	No. 105 Kindergarten	Songino Khairkhan District	Constructed with standard design drawings
	School	No. 97 School	Bayanzurkh District	Constructed with standard design drawings
	Public Office	NEMA	Sukhbaatar District	Public office necessary for emergency response
RC	Hospital	No.1 Gynecology Hospital	Sukhbaatar District	One of few RC hospital buildings
PC	Apartment House	9-Storey Apartment	Bayangol District	Apartment house, based on standard design

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



Issue

- Change of WG members
 - Five of 10 members have been changed.

Position	Affiliation	Previous	New
Coordinator	MCUD	B. Soyomboo	L. Billegjargal
	NEMA	Z. Battulga	
Member	MCUD	G. Erkhembayar	O. Bayarbaatar
	UBMPA	B. Tsend-Ayush	N. Tamir
	ALAGaC	B. Gantulga	B. Bayardulam

- Measure
 - Intensive workshop to introduce and transfer the seismic evaluation method of buildings, infrastructures, and lifelines to new members

Future Activities

Items	Target Date
Transfer the seismic evaluation method to new members	
Intensive training	2018.09.22-23
Training of equipment for seismic evaluation	
Procurement of equipment	Beginning of 2018.11
Training	2018.11.12-13
Training of seismic strengthening design	
Precise seismic evaluation	2018.05-2018.10
Seismic strengthening design	2018.10-2019.02
Training	2019.04
Implementation of "Train of Trainer"	
Preparation of training manuals, materials and tools	2018.12-2019.05
Trial	2018.06-2019.10

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Thank you for your attention.

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

THE 6TH JOINT COORDINATION COMMITTEE MEETING

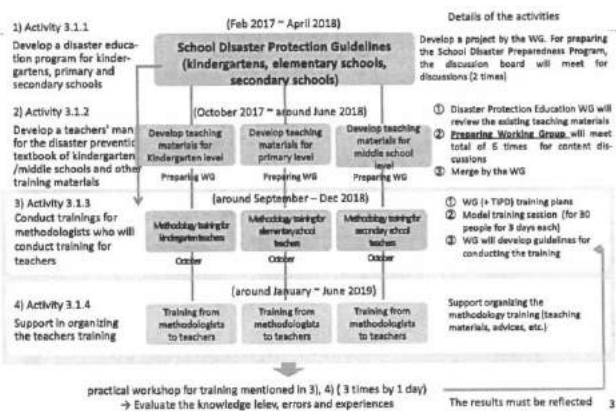
Working Group 3-1:
School DRR Education
work Progress

2018.09.21

Output 3-1 Members
DRR Education Working Group: School DRR Education

Mongolia Side	Japan Side
MECS Myagmar J	DRR Education I Miki Kodama (Ms.)
MECS Ganbatbay Ch. Ba/innyam.P	DRR Education II Yujiro Ogawa (Dr.) (till Mar 2018)
ERI (Education Research Institute) Enkhgotovkh.A Erdenechimeg B	Development of DRR Education Materials Yoko Ota (Ms.) Amerjagui.N
ERI (Education Research Institute) Mongolkhatan.G Halun.G	Community Disaster Management Toshikazu Hiwaki (Mr.)
NEMA Disaster Prevention Department Mankhat. D Enkhtsolmon. G	Local Consultant Dashi/G Adiyanyam.D
ITPD (Institute of Teachers' Professional Development) N. Munkhbayer	Local Consultant Bolormaa.T Local Staff Byambasuren.S

Output 3-1: GENERAL FLOW OF SCHOOL DRR EDUCATION



Working Group 3-1: work progress

Activities (Sub-activities)	Year	2017					2018					2019								
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5				
5.1.1 To develop a guideline which shows contents, method and implementation way of disaster risk reduction (DRR) education in kindergarten and primary and secondary schools based on Law of Disaster Protection	Plan																			
5.1.1.1 To review current situation of DRR education in kindergarten and primary and secondary schools (cooperating with Japanese practice)	Actual																			
5.1.1.2 To develop the guideline through the collection of the School DRR Education Working Group (WD)	Actual																			
5.1.2 To develop educational materials such as textbooks and supplementary materials for DRR education in kindergarten and primary and secondary schools	Plan																			
5.1.2.1 To collect and review existing educational materials through the WD activities	Actual																			
5.1.2.2 To establish Task Force for the development of the educational materials (one task force each for kindergarten, primary, and secondary schools)	Actual																			
5.1.2.3 To organize workshops and discuss and decide the contents of educational materials to be developed	Actual																			
5.1.2.4 To develop and finalize the educational materials through the Task Force and the WD activities	Actual																			
5.1.3 To implement training programs for the instructors of Teacher Training Institute and experts of educational department in local governments, using the guideline and materials developed in 3.1.1 and 3.1.2 respectively	Plan																			
5.1.3.1 To formulate the training programs through workshop and the WD activities	Actual																			
5.1.3.2 To implement pilot training	Actual																			
5.1.3.3 To review the training and formulate training manuals	Actual																			
5.1.4 To implement the training program for teachers by the instructors and experts who completed the training program mentioned in 3.1.3	Actual																			
5.1.4.1 To support the training for teachers	Actual																			
5.1.4.2 To review the result of the training of 5.1.3 and 5.1.4 through workshop and the WD activities and compile lessons learnt	Actual																			

Activity 3.1.2: The pilot lesson was held in connection with the development of a teacher's handbook on "Safe Life Training Curriculum"

- Pilot lesson was conducted regarding the development of the teachers' manuals on May 12, 2018

8th grade lesson 45 minutes	5 th grade lesson 45 minutes	Kindergarten's Senior Group Lesson 30 minutes
"One day ahead" training "One day ahead" training 1. History of Mongolia's seismic activity (slides) 2. Why does the earth move? (slides) 3. What damage will happen during earthquakes? (slides) 4. "Tomorrow the earth will shake. What to do?" group work 5. Conclusion: learn about preparedness and response	"Let's build an earthquake resistant house" 1. What happens during earthquakes? 2. Make an earthquake resistant house using a milk box 3. Show and introduce your model 4. Discussion of the actual methods used in reality in comparison with the pupils' models	"How to protect yourself during an earthquake?" 1. What is earthquake? 2. What happens during earthquakes? 3. Find dangerous places in the classroom 4. About three hazards "It's dangerous because it's coming from the top" "It's dangerous because it comes from beneath" "It's dangerous because it breaks" 5. Play "Disaster Resistant Duck" game

Working Group 3-1 meeting

- Date: May 12 and June 18 of 2018

Activities and discussions:

- Activity 3.1.2: Development of the Teacher's Manual
 - Conclusions, lessons learnt and evaluation of the pilot lesson
 - Amend the plans and schedule of developing the teacher's manual
 - Prepare the first version of the Teacher's Manual before the Naadam holidays, and finalize the Teacher's Manual before August 25th
- Activity 3.1.3: Training for methodologists and trainers
 - Discussed the training schedule and participants
 - Discussed the training curriculum: presented about the Japanese similar training
- Discussed about presenting during the 2018 Asian Ministerial Conference on Disaster Risk Reduction

Output 3-1 Vacuum training

● Date: 2018.9.5 ~ 6

● Activity content:

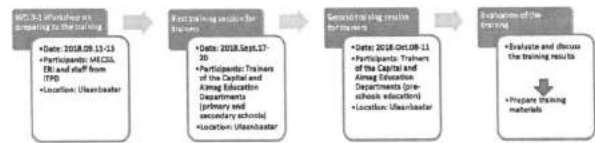
- > Activity 3.1.2: Finalize the Safe Living Training Curriculum Manual
- > Discussion and amendments to the individually prepared projects
- > Activity 3.1.3: Training of the trainers
- > Finalize the training program and curriculum
- > Develop training materials



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Activity 3.1.3 Training for methodologists and trainers

Plan for conducting this training session



Content to be presented

- > The concept of "Safe Living" curriculum and the main concepts
- > Mongolia's disaster protection system and the current measures against disasters
- > Basic understanding about disasters and disaster protection
- > Basic principles of disaster protection training
- > Good examples of disaster protection training
- > Disaster protection training tools and materials
- > Workshop: Developing practical teaching methods, developing disaster preparedness education plans, and developing a curriculum for teachers

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Activity 3.1.3: Ажлын хэсэг 3-1

Үндэсний сургагч багш бэлтгэх сургалт (2018.9.11~13)

- **Participant:** 35 people from the MECSS, ERI and ITPD; and 9 people from Disaster Protection Training and Methodology Center in Capital City and WG members
- **Training content:** assess and identify the content of training for the local trainers of pre-school education level; participants from ERI and ITPD will review and clarify the curriculum and plans of the "Safe Life" program.



Activity 3.1.3: Training session for trainers (1st training for methodologists of primary and secondary level education)

- Training date: 2018.9.17 ~ 20
- Participants: 60 people from the aimag, capital city and district Education and Culture Departments
- Objectives of training: conduct this training based on the "Safe Life" program for each aimag (Training participants lead the teachers' training and ensure the continuity of their educational development)



➔ The experience and lessons learned from this session will be reflected in the next October 8-11 training (for kindergartens and pre-school education methodologists).

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Participation in the Asian Ministerial Conference on Disaster Risk Reduction

- The presentation on "Child-centered Disaster Risk Reduction in Mongolia" was made at July 4 session organized by the World Vision Mongolia during the Asian Ministerial Conference on Disaster Risk Reduction



Presenter:
J. Myagmar (MECSS)

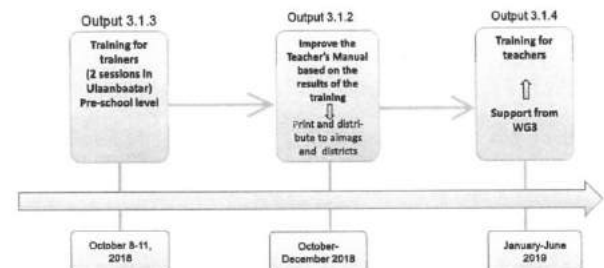
Topic: Ensuring and Promotion of School DRR Education as a Standard Education Content in Mongolia



Session participants: more than 40 people.

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Further plans of Working Group 3.1



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Activity 3.2.2: Develop teaching and promotional materials for disaster protection and conduct training in selected rural areas

The manual and video presentation on organising "Readiness for Everyone, Anytime and Everywhere" contest has been prepared and now ready.

150 pieces of DVD with the above manual have been distributed to relevant units of NEMA and other relevant organizations.

The manual and video presentation are now posted on NEMA's www.ontsgoisur.gov.mn.



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Activity 3.2.2 - development of DRR community training materials, hold training sessions in selected provinces

The "Be Ready" and "Readiness for Everyone, Anytime and Everywhere" contests and trainings have been organised in Uliastai of Zavhan province and 23 horoo of Bayanzurh district and 2nd horoo of Bayangol district

These training sessions were organized by volunteer trainers, the total 4 training sessions were attended by more than 200 people



Activity 3.2.3: Improve training curriculum for disaster protection Training Centers

Models of reinforced and non-reinforced buildings are now being prepared for comparative training, will be used during training sessions at the earthquake room of the Training Center



during the preparation of these sample models the members of the WG 2 offered their professional recommendations and close collaboration.



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The work plan

Activity 3.2.1	Create a comprehensive planning system for disaster protection training and promotion, improve training and awareness building	a 4W page to be uploaded to www.ontsgoisur.gov.mn -	Around 2018	December
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Activity 3.2.2: Develop teaching and promotional materials for disaster protection and conduct training in selected rural areas				Completed
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Activity 3.2.3: Improve training curriculum for disaster protection Training Centers	① Information stand and models for the Training Centre's earthquake room to be prepared	Content and curricula for the children's room at the Training Centre	Mid November 2018	Around December 2018
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- Issues requiring resolving
- Content and curricula for the children's room at the Training Centre need to be better identified and some coordination is required with World Vision Mongolia

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THANK YOU FOR ATTENTION!

I.B.

S.M.

The Amended Member List of Working Groups (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
		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 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
		Design for Seismic Strengthening	L.Bilegjargal MCUD N.Ganchimeg General Agency for Specialized Inspection N.Tamir Master Planning Agency of Capital City, Construction

Working Group (WG)		Sub-WG	Member
			Quality and Safety Department G.Saruultuya Construction Development Center O.Bayarbaatar MCUD Ts.Khulan Master Planning Agency of Capital City, Construction Quality and Safety Department
WG3	DRR Education <u>WG3 Coordinator:</u> 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.Munkhbayer Institute of Teachers' Professional Development (ITPD), MECSS D.Munkhbat Disaster Prevention Department, NEMA G.Enkhtsolmon Disaster Prevention Department, NEMA
		Community DRR Education	D.Munkhbat Disaster Prevention Department, NEMA D.Bat-Erdene Disaster Prevention Department, NEMA B.Uriingegee 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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Record of Question and Answer in the 6th JCC Meeting

1. Amendment of Working Group Member

Comment: Ms. Tsend-Ayush, NEMA:

Let us discuss amendment of working group (WG) members based on the latest list of WG member. There was no amendment in WG3, but there were some withdrawals from WG1 and 2. Successors have already been nominated in WG2, On the other hand, new members for WG1 have not been decided yet. Are there any objections or comments about the latest members for each WG?

Since there is no objection from JCC members, the latest list of WG member has been approved.

2. Progress of Procuring Equipment

Comment: Mr. Owada, JICA Expert Team:

The earthquake simulation equipment had been tested in Japan and now being shipped. Scheduled arrival date in Ulaanbaatar is 19th of October and installation is planned for 5th of November.

For installation, the basement's floor must be redone and risen up about 10 cm as a practical measure of water rising. The concrete cover should not be put on the wet floor. Considering the period for concrete's drying, this floor repair work must be completed by October 5th.

This water rising situation has been discussed several times by the relevant parties. Last check was yesterday late evening. The common assumption is that the level of underground water has reached up the level of the basement floor. In addition to the improvement of basement, the additional works should be carried out for protecting against water penetration in the future.

The additional contract should be made because the contracted company which is now working on repairs and concrete floor uprising, can not execute the works against future water penetration as this is not a professional company for this type of work.

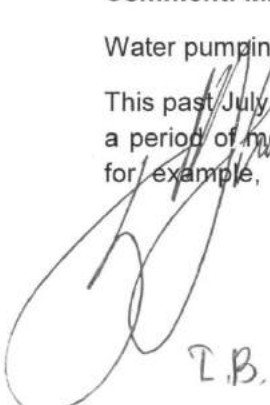
Once all water is pumped out, the one company promised to complete the wall reinforcement works within one day. Perhaps, there are other ways to prevent flooding, but this is the solution that have been discussed and agreed upon so far.

The request to Mongolian side is to complete water draining promptly and deal with fundamental measures for the whole building against future water penetration.

Comment: Mr. Khurelbaatar, EMDC:

Water pumping from the basement from the Training Center building is ongoing nonstop.

This past July and September were rainy. Pumping and removing of water go on straight for a period of more than 1 month. More we drain, more water penetrates into the basement, for example, when the pumper's engine is stopped for refilling with fuel, water level



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immediately rises. The contractor company also mobilizes all its resources. We have been and will do all we can to complete the water draining works quickly.

The EMDC presented a letter to the Specialized Inspection Agency of Capital City with regards to this problem. Both agencies discuss this matter frequently, including today too. The inspector Nyamdorj was appointed to this case, he visited the basement on September 2nd. The inspector's opinion was that the issue must be referred to the construction company which built the Training Center as the builder and is in charge within three years after completion of construction, and to the Master Planning Agency of Capital City.

Comment: Mr. T.Galbadrakh, NEMA:

The construction company has been hired by NEMA timely, the construction works for preparing the equipment installation site started according to the schedule. However, due to this water issue the schedule is now delayed for 10 days.

The issue has been discussed with several professional companies. Among these, two companies, Fuji Altai LLC and Buren Trade LLC, visited individually the Training Center building and both suggested reinforcement walls as protection against future water rising.

The extra cost estimation is more than 7 million tugrugs. This additionally required costs have been discussed by our decision-making people. The funding now is being sought. We have been making all necessary arrangements for prompt solution of this problem.

Comment: Ms. Jargal, GASI:

The earthquake simulation equipment has considerable weight, there will be notable shakes during the simulation process. Therefore,

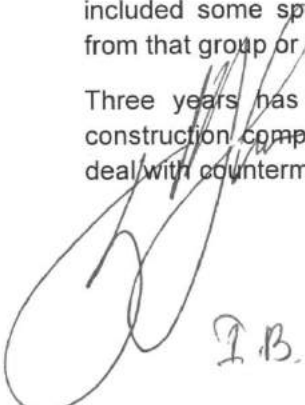
The foundation where the equipment is to be installed has specific and strict requirements. Problems with the floor may rise again in the future. The water problem may rise in other years too. The budget for potential costs for future water draining, walls protection and floor repairs must be discussed and agreed upon at this time (and not when the problem rises).

The letter was sent to the Specialized Inspection Agency of Capital City, but I am in charge for this matter at GASI, I will specifically focus to work on resolving this matter quickly.

Comment: Ms. G.Enkhtuya, Master Planning Agency of Capital City:

This summer 47 buildings along Tull river in Ulaanbaatar got flooded in their basements. There was a group formed including several relevant capital city agencies (Specialized Inspection Agency of Capital City, City Mayor's Office, and Master Planning Agency of Capital City) and professional organizations. This group issued some recommendations which could be relevant to this Training Center case. Those recommendations were prepared mainly by professors of Science and Technology University, Prof. Duinherjav and Prof. Nyamdorj who explored the situation with that flooding. The recommendations included some specific urgent solutions. So, these recommendations could be obtained from that group or the City Mayor's Office.

Three years has not passed yet since the Training Center was built, therefore the construction company which built the Training Center as the builder has responsibility to deal with countermeasure works for this issue.



3. Other Proposals and Comments

Comment: Ms. Jargal, GASI:

I have worked with the Project from its beginning. Now there is a delay in the Project implementation schedule due to the water rising (in the Training Centre basement), the solution to it should be found jointly and realized promptly requiring input from all relevant bodies.

Another component relevant to GASI is seismic assessment and engineering guidelines. Once these documents will be published, they will be promptly presented to GASI's construction inspectors for proper enforcement. In relation to this, training of inspectors is required concerning how this assessment methodology and guidelines must be practically used and what will be new provisions in the construction norms and regulations with regards to the seismic strengthening.

Other potential issues for training are how the equipment of seismic evaluation must be operated and used for training sessions; ways and procedures of seismic strengthening of buildings; training of trainers and practical training sessions for disaster protection of school and kindergarten buildings (Masonry structure).

Project's organizing the June 2018 training for construction inspectors working throughout Mongolia is much appreciated. It was attended by 70 people of which more than 30 was construction inspectors.

Comment: Ms. E.Tamura, JICA Mongolia Office:

The delay in preparation of the venue for installation of the simulation equipment is concerning. Early start of construction and repairs and assurance of readiness of the basement for equipment installation would have been crucial. There is no guarantee that water will not rise again in the future.

With regards to the current construction works that are being carried out in the basement, professional monitoring and assurance of quality work is essential. Protection against water and flooding in the future as well as preparing the floor and ensuring its flat and even surface must not be the duty only of the contracted company.

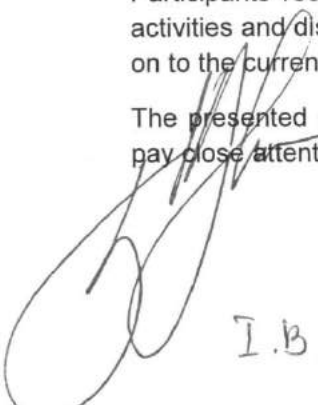
As about the reinforcement panels to be used as protection against water flooding, attention must be paid to the quality of these panels, their term (period) of usage, frequency of needing these panels be changed and reinstalled. I also would like you to confirm that the installation of these panels is the most suitable and efficient solution for this case.

4. Closing the 6th JCC Meeting

Comment: Mr. L.Ulziibayar, NEMA:

Participants received the detailed update of the current status and results of the Project activities and discussed the problems facing. The Mongolian side and I personally will focus on to the current challenge for its quick resolution.

The presented candidates to members of the Working Groups have been accepted. I will pay close attention to nominating candidates for the WG 1.



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A date for the next JCC meeting is suggested for 2019 January 15th, since the government staff usually have busy schedules with planning and reporting at the end of the year. Previously, we had held the meeting in January too.

Comment: Ms. Tsend-Ayush, NEMA:

Since there is no objection from participants, the next JCC meeting will be held on the third or fourth week of January, 2019.

Comment: Mr. L.Ulziibayar, NEMA:

Now the common understanding is that our biggest current challenge is the hardship regarding the delay of the earthquake simulation equipment installation process. This issue is nature induced which we could not foresee. I appreciate Ms. Jargal's (GASI) recommendations and offering support in settling effective solution for this Training Center's basement issue.

Thank you all.

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