

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

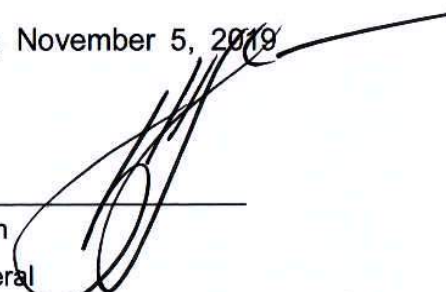
Joint Coordinating Committee (hereinafter referred to as "JCC") for the Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia (hereinafter referred to as "the Project") held its ninth meeting on November 5, 2019 from 10:00 AM to 12:00 noon, at the 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 this 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 agreements made at the meeting are summarized in the attached document hereto.

Ulaanbaatar, November 5, 2019



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


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



Mr. Kiyotaka Owada
Team Leader
JICA Expert Team



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

ATTACHED DOCUMENT

1. Amendment of the List of Working Group Members

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

Mongolian side submitted the amended members' list of the C/P WG that was amended from the member list approved in the eighth JCC on June 5, 2019 to respond to changes in members' positions and to conduct more effective WG activities. JCC members confirmed the amended members' list of WG shown in Annex 3.

2. Agreement of the Content of Project Completion Report

The representatives of the Project and three WGs explained respectively the overall results and achievements of activities implemented in the Project, the result of the joint review and future plans to achieve overall goals after completion of the Project as shown in Annex 4 based on the content of proposed Project Completion Report (hereinafter referred to as "PCR") shown in Annex 5.

JCC members confirmed the completion of all the activities and agreed with the content of PCR.

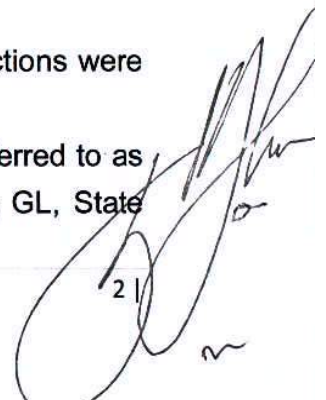
3. Confirmation of Action Plan for Addressing the Achievement of Overall Goals of the Project and Securing Sustainability of Project's Outputs

In line with the content of PCR, Mongolian side explained the action plan as shown in Annex 6 to address the achievement of overall goals of the Project. Japanese side suggested that the action plan will be finalized after the confirmation by Japanese side and Mongolian side and Mongolian side will take appropriate process to make action plan be authorized officially in the Project. Mongolian side agreed on it. Action Plan will be reported in the Standing Committee on Earthquake Disaster Prevention held on November 26, 2019 and approved finally by the deputy prime minister as the Order of Deputy Prime Minister.

3-1 Implementation of Active Follow-Up Activities for Output 1

As follow-up activities of Output 1 after the final JCC, the following actions were clarified.

- ◇ To proceed with approval procedure for guidelines (hereinafter referred to as "GL") such as National Earthquake Disaster Protection Planning GL, State



2/1

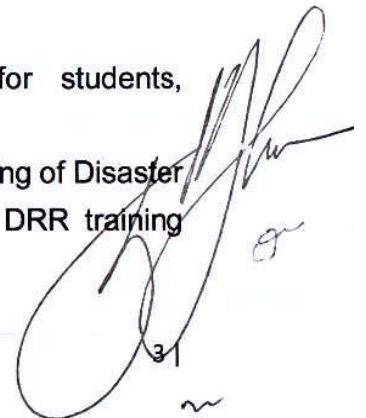
Earthquake Disaster Protection Service Planning GL and Aimag/Soum and City/District Level Earthquake Disaster Protection Planning GL that have not been approved so far.

- ✧ To encourage the Emergency Management Departments in the pilot Aimags and Districts to promptly approve the Earthquake Disaster Protection Plans formulated in the activity of Output 1.
 - ✧ NEMA will lead formulation of Local Level Earthquake Disaster Protection Plan, which can be called as Local DRR Plan on Earthquake Disaster, with utilizing the Project's outputs and making UNDRR activities be aligned with them.
 - ✧ NEMA will make the plan of expanding formulation of Local DRR Plans on Earthquake Disaster in the Project.
 - ✧ To monitor status of implementation of risk assessment by utilizing Earthquake Risk Assessment GL and Seismic Diagnosis GL that were developed in the Project.
 - ✧ To conclude the agreements discussed and drafted in the Project.
-
- ✧ To establish a taskforce to continue the formulation of White Paper.
 - ✧ To ensure the sustainable operation of Spatial Information System for Disaster Risk Reduction (hereinafter referred to as "SISDRR") by making redundancy of system administration for operation and management of SISDRR.

3-2 Implementation of Disaster Risk Reduction Policies Utilizing Outputs of the Project

The following actions were clarified in order to achieve the overall goals by utilizing outputs of the Project.

- ✧ To make special efforts to disseminate measures for disaster risk reduction including disaster protection planning to whole local governments by assigning appropriate personnel.
- ✧ To implement earthquake disaster protection plans and monitor the progress of implementation by NEMA and related ministries and agencies.
- ✧ To expand seismic diagnosis of buildings, infrastructures and lifelines throughout the country and promote seismic reinforcement.
- ✧ To practice actively disaster risk reduction education for students, preschoolers and residents.
- ✧ To hold the Disaster Prevention Education and Awareness Raising of Disaster Prevention Team meeting regularly to utilize the website of DRR training program schedule effectively and continuously.



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- ◇ To monitor progress of DRR education through communicating with the Grassroots Technical Cooperation implemented by Nagoya University in Mongolia.

3-3 Implementation of Countermeasures for Waterproofing Work for Disaster Protection Training and Methodology Center (hereinafter referred to as "DPTMC")

Mongolian side promised to undertake reliably and promptly waterproofing work for the whole basement floor of DPTMC that was inundated in recent year and had not been waterproofed despite the commitment during the seventh JCC.

4. Continuous Public Relations regarding to DRR Activities

It is expected that NEMA will continue to conduct public relations of DRR events including the seminar for disseminating the Project's outputs and their DRR activities including formulating DRR plans, implementing disaster drills and DRR training programs through not only media but also their website to improve DRR awareness of citizens and DRR related ministries and agencies.

5. Question and Answer on the JCC

The record of the question and answer session in the JCC is shown in Annex 7.

Annex 1: List of Participants

Annex 2: Agenda of the JCC Meeting

Annex 3: Working Group Members' List

Annex 4: Presentation Documents for the Results of Activities

Annex 5: Project Completion Report

Annex 6: Action Plan

Annex 7: Question and Answer in the JCC Meeting



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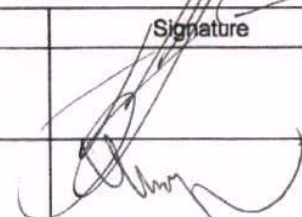
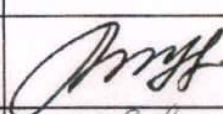
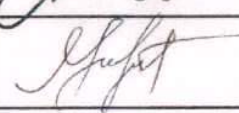
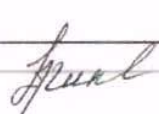
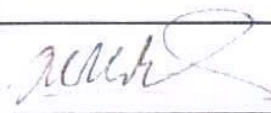
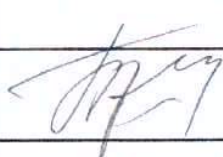

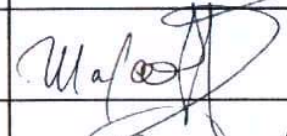


Annex 1: List of Participants

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

Date: 2019/11/5

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 9th Joint Coordination Committee (9th 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		
Ya. Baasambat Ye. Jargalsaikhan	Referent of National Security Council	88059855	
L.Ulziibayar	Director, Policy Coordination and Cooperation Department, NEMA		
D.Jargal	Director, Infrastructure and State Inspection Department, General State Inspection Agency	99176069	
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	99016177	
Eriko Tamura	Chief Representative, JICA Mongolia office	tamura.eriko@jica.go.jp 田村 2113	
Makiko Inamori	Project Formulation Advisor, JICA Mongolia Office		
Ch.Munkhmanlai	Program Officer, JICA Mongolia office	chinbat.munkhmanlai.m@jica.go.jp	
Hideaki Matsumoto	Director, Disaster Risk Reduction Team2, Disaster Risk Reduction Group, Global Environment Department, JICA	Matsumoto.Hideaki@jica.go.jp	
Takafumi Sakurazawa	Disaster Risk Reduction Team2, Disaster Risk Reduction Group, Global Environment Department, JICA	Sakurazawa.Takafumi@jica.go.jp	

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OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA"**

Date: 2019/11/5

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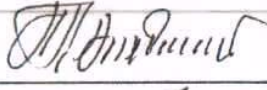

Name	Position, Organization	E-mail/ Tel	Signature
Xuvshin	NEMA	99173133	
B. Dulamsuren	NEMA	99007969	
B. Tsend	NEMA	80150069	
D. Bayarbatov	NEMA	44766999	
S. Sodnomragchaa	NEMA, EWDC, SIT Division	98888148	
Bayanmunkh B	NEMA,	99084557	
Vandindorj B	NEMA	99080474	
Khurelbatvaar	NEMA	88019559	
Bat-erdene D	NEMA	99142333 0091023330 1015	
D. Bazarrag- Chaa	NEMA	99194257	
O. Bayarbaatar	MCVD	99900532	
D. Odbayar	JET	88477748	
N. Amgijavch	JET	99297766	
E. Enkh-Erdene		96956059	
T. Bolormaa		99736052	

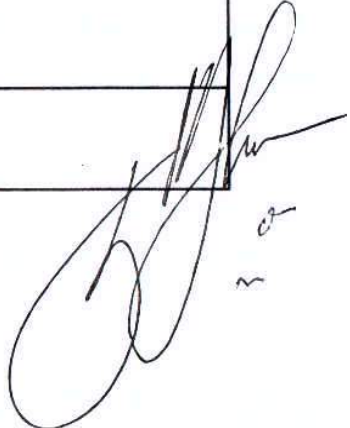
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Date: 2019/11/5

Place: NEMA Conference Room (1st Floor)

Title of Meeting: 9th Joint Coordination Committee (9th JCC)

Name	Position, Organization	E-mail/ Tel	Signature
Miki Kodama	JICA Expert Team	chezmit2001@gmail.com	白王美樹
Seiichiro Fukushima	JICA Expert Team	fukushima@htk-c.co.jp	福島誠一郎
Osamu NISHII	JET	nishii@expinter.com	西井 理
Y. Erdenebat	JET	erdene7@msn.com	
D. Murun	JET	lindaajp2000@yahoo.co.jp	Д.Мурун
ANXBILEG-T.	JET	ANXBILEG.OT@yandex	
K. Owaola	JET		



Annex 2: Agenda of the JCC Meeting



**“THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY
OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA”
Agenda for 9th Joint Coordination Committee (9th JCC, Final)**

Date: November, 5st 2019

Time: 10:00~12:10

Venue: NEMA Conference Room

Moderator: Ms. D. Bazarraghaa

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. Hideaki Matumoto Director, Disaster Risk Reduction Team2, Disaster Risk Reduction Group, Global Environment Department, JICA</i>
3	10:20-10:30 (10 min)	Overall Result of the Project	<i>Mr. Kiyotaka Owada Team Leader, JICA Expert Team</i>
4	10:30-10:50 (20 min)	Result of WG1 Activity	<i>Representative for WG1</i>
5	10:50-11:05 (15 min)	Result of WG2 Activity	<i>Representative for WG2</i>
6	11:05-11:20 (15min)	Result of WG3 Activity	<i>Representative for WG3</i>
7	11:20-12:00 (40 min)	<p>Discussion and Confirmation on:</p> <p>(1) Amendment of the List of Working Group Members</p> <p>(2) Confirmation of the Project Completion Report</p> <p>(3) Confirmation of Action Plan for Addressing the Achievement of Overall Goals of the Project</p> <ul style="list-style-type: none"> ➤ Implementation of Active Follow-Up Activities for Output 1 ➤ Implementation of Disaster Risk Reduction Policies Utilizing Outputs of the Project ➤ Implementation of Countermeasures for Waterproofing Work for Disaster Protection Training and Methodology Center <p>(4) Others</p>	<p><i>Discussion with All Participants</i></p> <p><i>Item (2): Mr. Kiyotaka Owada, Team Leader, JICA Expert Team, explains results of Join Review in the Project Completion Report.</i></p> <p><i>Item (3): Mr. B. Bayanmunkh, Policy Coordination and Cooperation Department, NEMA, explains the Action Plan for addressing the achievement of overall goals of the Project.</i></p>
8	12:00-12:10 (10 min)	- Closing Remarks	<i>Mr. D.Batsaikhan Director of Disaster Prevention Department, NEMA</i>

Annex 3: Working Group Members' List

The Amended Member List of Working Groups (8th JCC)

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

Working Group (WG)		Sub-WG	Member
			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.Bat-Erdene Disaster Prevention Department, NEMA	School DRR Education	J.Myagmar MECSS Ch.Gantsetseg MECSS P.Baljinnyam MECSS G.Mongolkhatan Education Research Institute, MECSS B.Erdenechimeg Education Research Institute, MECSS A.Enkhtogtokh Education Research Institute, MECSS G.Khaliun Education Research Institute, MECSS N.Munkhbayar Institute of Teachers' Professional Development (ITPD), MECSS D.Bat-Erdene Disaster Prevention Department, NEMA G.Enkhtsolmon Disaster Prevention Department, NEMA
		Community DRR Education	D.Bat-Erdene Disaster Prevention Department, NEMA D.Khadbaatar Disaster Prevention Department, NEMA B.Uuriingegee EMDC D.Munkhbat EMDC B.Chinbat EMDC D.Dulamsuren Public Information Center, Disaster Prevention Department, NEMA S.Doljinsuren EMDC B.Ariunchimeg National Center for Long life Education



Annex 4: Presentation Documents for the Results of Activities

Results of Review

DAC Evaluation Criteria	Key Point/s of Evaluation	Condition of each Key Point	Result of Evaluation
Relevance	<ul style="list-style-type: none"> The Law of Disaster Protection 	<p>The law is newly focusing on pre-disaster action and risk reduction measures. The revised law was enacted in February, 2017 that introduced the Pre-Disaster Activities including assessment of risks, development of disaster protection plan, control and monitoring of a disaster protection, conduct of training and advocacy and creation disaster information data base. Whereas NEMA has a responsibility to cope with these pre-disaster activities in prompt manner, all activities of the project are related to these issue.</p>	High
Effectiveness	<ul style="list-style-type: none"> Achievement of the Project Purpose's indicators Achievement of each Output's Indicators 	<ul style="list-style-type: none"> Project Purpose's indicators have been generally achieved in the Project. Each Output's indicators have been generally achieved in the Project. 	High
Efficiency	<ul style="list-style-type: none"> Project cost Project duration 	<ul style="list-style-type: none"> Project cost had been increased only for the effective implementation of the 2nd Training in Japan following the increase in participants at the request of the Mongolian side. Project duration is equal to planned one. 	Fair
Impact	<ul style="list-style-type: none"> Prospects to achieve the Overall Goal Causal relationship Ripple effect 	<ul style="list-style-type: none"> The Project produced outputs that would promote activities of NEMA and related organizations to achieve Overall Goal. The Overall Goal does not deviate from the Project Purpose because the enhancement of capacity of NEMA contributes to risk reduction. Disaster Protection Plans and DRR White Paper will improve the awareness of DRR of not only government agencies but also private sector. MACE promotes the understanding of seismic diagnosis through training for member engineers, and the implementation of seismic diagnosis for general buildings will be promoted in the near future. the awareness raising measures for the community will induce the emergence of a new disaster protection culture. 	High

Results of Review

DAC Evaluation Criteria	Key Point/s of Evaluation	Condition of each Key Point	Result of Evaluation
Sustainability	<ul style="list-style-type: none"> Political and Institutional Sustainability Organizational Sustainability Technical Sustainability Financial Sustainability 	<ul style="list-style-type: none"> The Project strives to ensure the political and institutional sustainability of the Project by institutionalizing the outcome of the project including technical guidelines, agreements and organizational framework. The Project appointed WG members from NEMA and related agencies for implementing the project activities. Due to frequent transfer of C/P officials, it was observed that some of the activities were delayed because former WG members transferred to irrelevant department to the Project. Each output developed training material as guidelines to expand the result of the Project to other regions. The Project strives to utilize C/P officials as facilitators/lectures for ensuring the technical sustainability and implemented the ToT workshops if necessary. The Project ensures the financial sustainability of the Project by legalizing and approving the outcome of the Project, which facilitates the future budgeting of the activities. In additions, the Project emphasizes on strengthening the working relationship with other DRR related government agencies. This is designed to enhance the capacity of NEMA as a DRR focal in Mongolia as well as facilitate the cost share with other government agencies. 	Relatively High

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Before Project Initiation

< Project Rationale >

- Faults were discovered near UB
- Amount of perceptible and imperceptible seismic waves are increasing
- UB population density is increasing at a rapid pace (excessive growth)
- Large number of old, low-seismic resistance buildings built during the socialist era (increasing vulnerability)
- Global DRR trends contained within the Sendai Framework

Change in the local conception of earthquake hazards

Law on Disaster Protection (2017.2)

< Law which emphasizes prevention >

Pre-Project Situation

- The previous law was mainly focused on emergency measures during disasters, and contained few clauses related to guidelines on collecting and utilizing information for strengthening DRR activities and administration.
- Government organizations and other related organizations conducted disaster protection activities separately and there was a lack of coherence between the activities. Moreover, understanding and awareness of earthquake preparedness was lacking.

There was no common understanding on the seismic risk assessment of buildings, infrastructure and lifelines. Moreover, understanding and awareness of earthquake of earthquake resistance was lacking.

NEMA and NGOs have conducted DRR training in selected regions, however the continuity and nationwide reach of such educational activities were insufficient.

Project Activities (Progress) and Expected Results			Achieved Results (As of October 2019)
Project Activities	Tasks to be Developed and Implemented through Project Activities (As of October 2019)	Human Resources/Organizations	
1.1	To improve frameworks for DRR by reflecting the Amended Law on Disaster Protection	<ul style="list-style-type: none"> Earthquake Risk Assessment GL Earthquake Disaster Protection Planning GL (3 types for National, State Services, and Capital City, Districts, Aimag and Soums) GL for SISDRR Disaster Protection Planning Manual Manual for Developing DRR Agreements Manual for Developing the DRR White Paper 	<ul style="list-style-type: none"> Number of developed GLs to be Implemented: 8/8 Of which 2 have been approved
1.2	To strengthen cooperation among related organizations for DRR	<ul style="list-style-type: none"> DRR agreements (9 types) SISDRR agreements (2 types) 	<ul style="list-style-type: none"> Number of agreements developed: 11/11 Of which 9 are approved. Training Participants: 38
1.3	To improve monitoring and information gathering methods for national and local disaster protection plans	<ul style="list-style-type: none"> Disaster protection plans of test aimag and districts (2 aimag, 2 districts) "DRR White Paper - 2017", 2018 GL on Operation and Management of SISDRR 	<ul style="list-style-type: none"> DRR White Paper: 1/2 (2018 White Paper is being prepared for printing)
2.1	To establish seismic assessment methods for buildings, infrastructures and lifelines for the country and UB, and to implement training program on seismic assessment	<ul style="list-style-type: none"> Seismic Diagnosis GL for Buildings (masonry, PC, RC) Seismic Diagnosis GLs for Infrastructure and Lifelines Training manuals 	<ul style="list-style-type: none"> Seismic diagnosis GLs: 4/4 Training Participants: 491 (Including training for teacher-trainers)
2.2	To develop seismic strengthening guidelines for buildings in the country and UB, and to implement training program on seismic strengthening	<ul style="list-style-type: none"> GL on the Seismic Reinforcement of Buildings (masonry, PC, RC) Developing seismic reinforcement design for buildings Training manuals 	<ul style="list-style-type: none"> Building reinforcement GLs: 3/3 Training Participants: 107 (Including training for teacher-trainers)
3.1	Developing the Safety Life Skills program for kindergartens and schools, and the associated educational materials; conduct training for pedagogical methodologists	<ul style="list-style-type: none"> Safety Life Skills education program Teacher's manual and teaching materials of the Safety Life Skills program 	<ul style="list-style-type: none"> DRR-related training conducted within the framework of the Project: Started in the 2nd period of the 2019 school year
3.2	Develop DRR training tools and materials, and implement training for citizens in test regions	<ul style="list-style-type: none"> Manual + materials for teacher-trainers Training program + materials for the DPTMC Website for the comprehensive planning of DRR training and awareness-raising activities 	<ul style="list-style-type: none"> Number of visitors to the DPTMC: 24,737 (March – September 2019) 16,820: Visitors to the earthquake experience simulation room

After Project Completion

< Overall Goal > Seismic risk will be reduced.

< Project Goal > The capacity of the National Emergency Management Agency will be enhanced through the activities for strengthening the countermeasures for seismic risk

Results (As of October 2019)

- Approved programs, GLs and agreements
- Output 1: 11/16
- Output 2: 7/7
- Output 3: 2/2

Expected Results

Output 1: Capacity for data collection on disaster risk reduction and coordination among related organizations will be enhanced:

- Conditions will be set for appropriately collecting the necessary data necessary for earthquake risk assessment and the evaluation of the global targets of the Sendai Framework. Moreover, central and regional organizations will be able to develop the DRR plan used for budgeting funds dedicated to DRR activities.
- The cooperation framework for relevant parties in each step of the disaster cycle will be developed through agreements. The coordination between NEMA, MUD, MECSS, GASI and the UB Mayor's Office will be enhanced within activities related to seismic diagnosis of buildings and DRR education.

Output 2: Capacity of state organizations related to the seismic assessment and seismic strengthening of buildings will be enhanced:

- The seismic diagnosis and reinforcement of buildings, and the seismic diagnosis of infrastructure and lifelines will be implemented based on the guidelines that will be applied nationwide. Moreover, human resources capable of seismic diagnosis will be prepared, and a comprehensive training program will be developed.

Output 3: Implementation plans for DRR education, training and awareness-raising will be developed:

- DRR education for primary and secondary schools will be implemented nationwide based on the comprehensive educational program. Moreover, activities for citizens will be implemented according to plan and DRR capacity will improve at the national level.

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Progress and Results of WG1 Activities

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

9th Joint Coordinating Committee

Working Group 1

Sub-WGs: ▶ 1-1 Risk Assessment Guideline

▶ 1-2 Disaster Protection Planning Guideline

▶ 1-3 Agreements

▶ 1-4 White Paper

▶ 1-5 Database

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

Guideline on the General Analysis of Earthquake Risk (General Assessment) at the Administrative Division Level

- ▶ **Objective:** Perform general earthquake risk assessment at the administrative division level for planning and implementing DRR activities, and compiling the necessary information for disaster protection planning

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

Guideline on the General Analysis of Earthquake Risk (General Assessment) at the Administrative Division Level

CONTENTS

One. General Provisions

Purpose
Scope

Two. Terminology

Three. Required Information

Principal Data
Historical Earthquake Data
Data on Buildings and Structures
Information on Infrastructure

Four. Methodology for General Earthquake Risk Assessment

Determining Earthquake Risk
Analyzing Earthquake Risk
Evaluating Earthquake Risk

Five. Preparing the Report

Six. Incorporating the Results of the Risk Assessment in Disaster Protection Planning

Seven. Guide for Calculating Potential Earthquake Disaster Risk Using Microsoft Excel

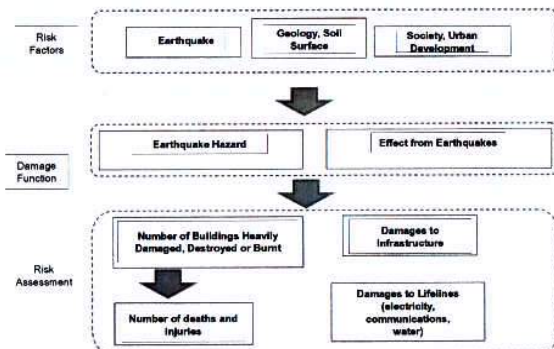


Diagram for the General Analysis of Earthquake Risk

Activate Writ

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

- ▶ The General Analysis of earthquake risk may be understood as the General Assessment
- ▶ Comments from the relevant parties were incorporated into the draft General Risk Assessment GL and was submitted for discussion by the NEMA Board of Directors on October 22, 2019.
- ▶ Utilization on the Disaster Risk Assessment GL

The "Regulation on Disaster Risk Assessment" (Gov. Resolution 67 of 2018) includes General Analysis of Disaster Risk

Approved on November 1, 2019 through decree 100 of the Deputy Prime Minister of Mongolia

Damage estimates in the 1st aimags Umnugovi and Darkhan-Uul were calculated using the General Risk Assessment GL

Training of specialists on the GL and methodology – EXCEL program

New specialists in charge of risk management and assessment were trained

UKS

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

➤ Further Actions

Provide administrative guidance to the regional DRR committees and the Standing Committee on Earthquake Disaster Prevention for conducting earthquake disaster risk assessments between 2020-2025 in aimag centers where high-resolution regional maps were developed by the Space and Geophysics Institute according to the General Earthquake Risk Assessment Guideline, and monitor their assessment process.

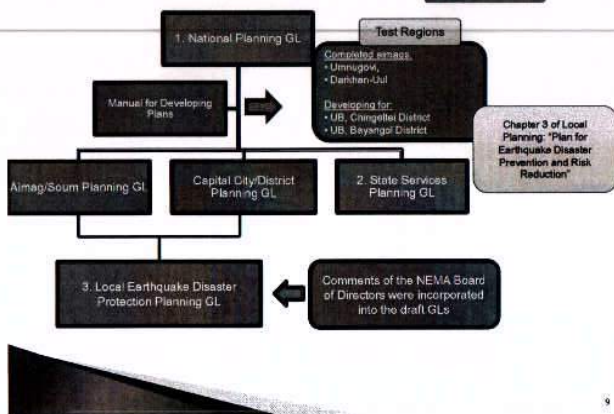
Sub-WG 1-2: Guideline for Developing Earthquake Disaster Protection Plans

Progress of Activities

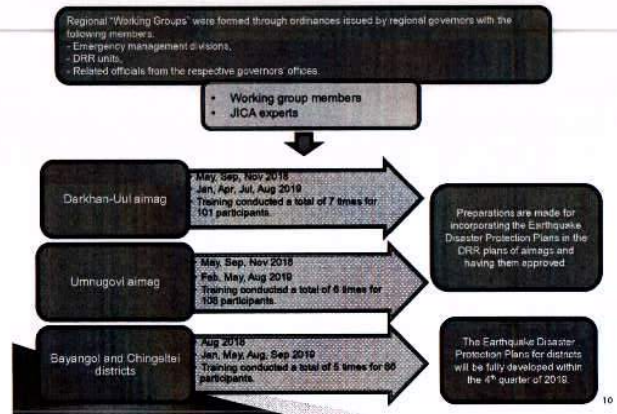
Output	2016.12.05-2017.02.01	2017.02.01-2017.12.31	2017.12.31-2017.12.31
Develop GLs for earthquake disaster protection planning	Researching and evaluating the existing disaster protection planning methods used in Mongolia	Researching the disaster protection planning methods of Japan and developing the structure of disaster protection plans	Obtaining knowledge and understanding of disaster protection planning in Japan
Performance Indicators	<ul style="list-style-type: none"> - The Law on Disaster Protection (2017) - Guidelines for Disaster Protection Planning at the Aimag, Capital, Soum and District Levels (2016) - The National Disaster Protection Plan (2015) - The Earthquake Disaster Prevention and Risk Reduction Plan (2014) - Regional Disaster Protection Planning, Structures and Organization - Cooperation Agreements with Related Organizations 	<ul style="list-style-type: none"> - The National Disaster Protection Plan of Japan - The Disaster Protection Plan of Sapporo City - The Disaster Protection Plan of the Ministry of Land, Infrastructure, Transport and Tourism 	<ul style="list-style-type: none"> - 17 members of WCI1 went for training in Japan - Disaster management and generalization of Japan - Disaster protection planning at the national, prefectural, city and district levels - Inter-sectoral cooperation - Risk assessment - Database development
1. Aimag/Soum Disaster Protection Planning GL			
2. Capital City/District Disaster Protection Planning GL			
3. State Disaster Protection Services Planning GL			
4. National Disaster Protection Planning GL			

Sub-WG 1-2: Guideline for Developing Earthquake Disaster Protection Plans

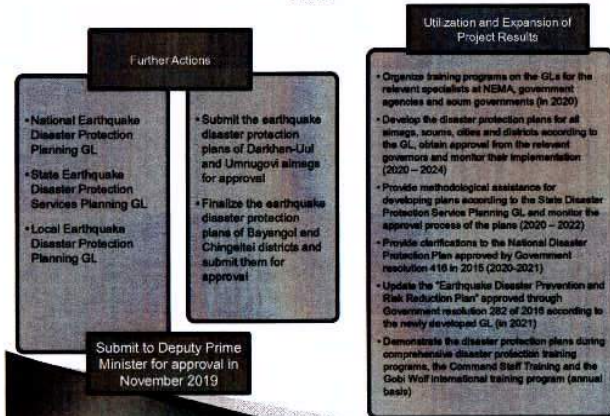
2016.12.16-2019.10.29



Sub-WG 1-2: Guideline for Developing Earthquake Disaster Protection Plans



Sub-WG 1-2: Guideline for Developing Earthquake Disaster Protection Plans



Sub-WG 1-3: Cooperation Agreements

Sector	Contents	Organizations	Risks
Food	Organize stable supply of foods and water to disaster victims in evacuation places and temporary housings	NEMA-MOFALI	Agreement established on October 16, 2018.
Medicine, medical equipment	Stable supply of medicine for providing emergency medical services in regions struck by disaster	MOH-3 major pharmaceutical manufacturer and importer companies	Agreement established on November 12, 2018.
Construction materials, temporary housing	Supply of construction materials required for the immediate restoration of structures, and construction of temporary housing	MCUD- Association of Construction Material Manufacturers, Construction Association	Agreement established on September 28, 2019.
Clean water	Organize stable water supply at in regions struck by disaster	NEMA-Water Management Authority ("WMA")	The draft agreement was finalized and delivered to WMA. WMA responded that they will sign the agreement and deliver it back to NEMA.
Road and transport	Providing road and transport means necessary for organizing search and rescue, damage mitigation, and immediate restoration activities without delay in regions struck by disaster	NEMA-MRTD	Agreement established on October 20, 2019.

Sub-WG 1-3: Cooperation Agreements

Sector	Contents	Organizations	Progress
Fuel and gas	Providing stable fuel supply required for organizing search and rescue, damage mitigation, and immediate restoration activities in regions struck by disaster	NEMA-MRPAM	Draft agreement delivered to MRPAM.
Communications	Setting up priority telephone lines during disasters, and limiting regular telephone services	Telephone companies, NEMA, CRC	CRC and telephone companies are currently studying the technical feasibility of the agreement.
Temporary housing	Utilizing school buildings as temporary housing (School buildings to be built by Japanese government grants)	NEMA (EMDC)- Education Office of UB City	Agreement is ready, and the date for signing the agreement is being scheduled.
Waste water treatment	Establish public lavatories in evacuation places and temporary housing, and organize the immediate restoration of sewage systems	EMDC-Facility Service Office of UB City	Agreement is ready, and the date for signing the agreement is being scheduled.

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Structure and Contents of the "DRR White Paper - 2018"

Chapter 1 - The Legal Environment for DRR in Mongolia, and its Improvement:

- Notable guidelines and regulations approved in 2018
- Work related to policy documents

Chapter 2 - Multilateral Cooperation in DRR:

- International cooperation in DRR
- AMCDRR, projects and programs

Chapter 3 - Disaster Prevention Activities:

- DRR training and awareness-raising
- DRR activities

Chapter 4 - Disaster Protection Activities:

- Disasters and hazardous events in 2018 and their countermeasures taken
- DRR equipment and personnel

Chapter 5 - Strategic Reserves and Humanitarian Aid:

- Legal documents and activities related to strategic reserves and humanitarian aid in 2018

Chapter 6 - DRR Budget and Funding:

- National budget funding
- Foreign funding

Chapter 7 - DRR Research, Analysis and Innovations:

- Activities related to DRR research, technology and innovations

Chapter 8 - Coordination of DRR Activities:

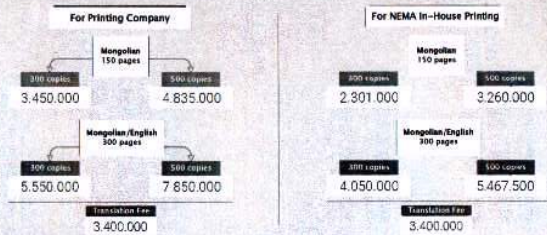
- Activities of the National Committee on DRR;
- Activities of the Standing Committee on Earthquake Disaster Prevention and Risk Reduction
- National Emergency Committee

FURTHER ACTIONS

- Develop a detailed guideline on developing the DRR White Paper
- Publish the White Paper within the 1st quarter of each year
- White Paper should be an academic work of research
- Current state of disasters internationally, derive learnings from them



Required Budget for the "DRR White Paper - 2018"



UK

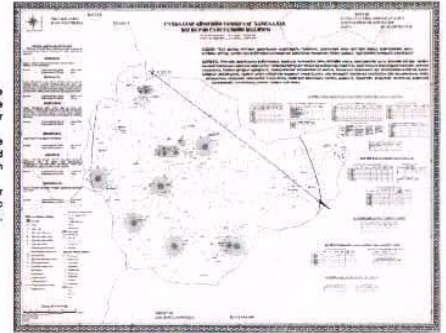


Spatial information system for disaster risk reduction (SISDRR)

Introduction of development

Speaker: D.Sodnomragcha, Lieutenant colonel

Geographic information system with disaster management:

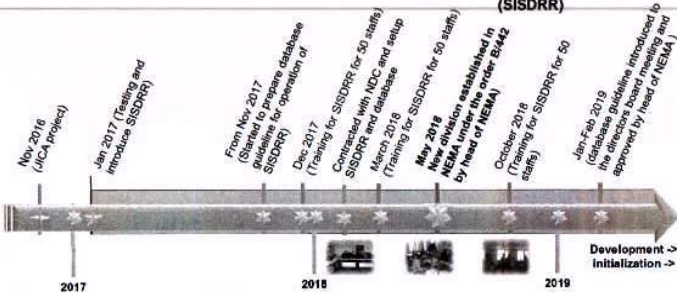


Location (Q1 where...?): For the question one, finding location of A. Location A can be identified (by lat long, name, number, post code or geographical location)

Situation (Q2 which...?): For the question two, identifying situation in disaster affected area, distance and compare the previous condition using geographical information.

Trends (Q3 what is changed...?): For the question three, identifying changes during specific time period. (Building collapse, construction demolish, land use, height changes etc)

Development of spatial information system for disaster risk reduction (SISDRR)



- ✓ Sub working group meeting organized 16 times for preparation of database guideline
- ✓ 150 staffs are participated from central NEMA and regional EMD in 3 times technical trainings.

Development of Guideline and Manuals



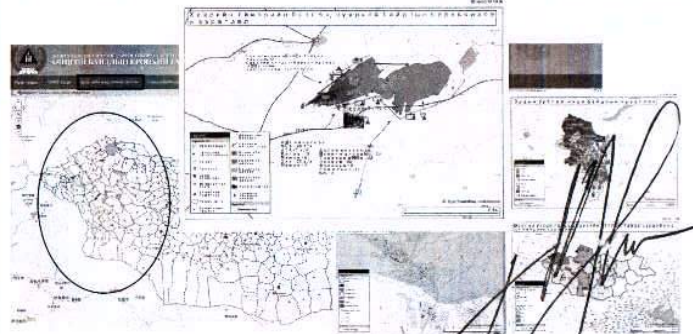
- ◆ **Database Guideline:** "Guideline on Operation and Management of Spatial Information System for Disaster Risk Reduction" approved by A/47 order of head of NEMA in 20th Feb 2019.
 - ◆ **Annex**
 - > Annex 1: Disaster code
 - > Annex 2: Geospatial database design for DRR
 - ◆ **User manuals**
- Installation, configuration and utilization manuals /9/** are fully prepared and ready to utilized in Mongolian language.

2.Capacity development of human resource

- JET and "Spatial information technology division" under the early warning center was jointly organized series of capacity enhancement technical training based on latest improvement of spatial information system for disaster risk reduction (SISDRR) and number of total participants are more than 150 staffs from central NEMA and regional EMD



Spatial information system for disaster risk reduction (SISDRR)



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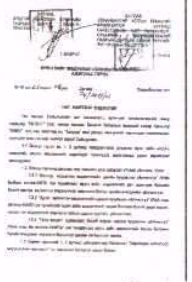
2.3 Capacity development of human resource

Video lessons:
 8 video lesson prepared for general users of SISDRR
 - Basic lessons
 - Target lessons (object fire mapping, disaster risk mapping)
 5 video lessons for admin of SISDRR

3. System and database development

• Municipality of Ulaanbaatar: Urban planning and Mater planning department

- o NEMA and "Urban planning and master planning department" were successfully made contract negotiation in 7th March 2019 for geospatial data sharing.
- o Geospatial data of Ulaanbaatar has been shared to NEMA effectively according to the achievement of contract negotiation. Content of shared data is soil, water, plant, Environment, urban planning, engineering infrastructure, building and construction, social-economic, aerial photo etc. Moreover building distribution data have been received with full of information with seismic evaluation data through result of passport.

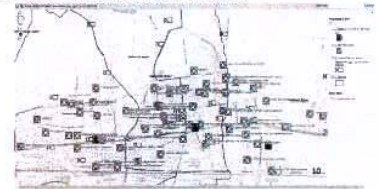


3.1 System and database development

Administration of land management, geodesy and cartography (ALMGaC):
 NEMA and ALMGaC made contract negotiation in 2018.
 Latest update: NEMA received 21 aimags building distribution data with full of information (Construction material, design, structure, age, stories, purpose, capacity etc other) as well as road and engineering infrastructure data and all data stored in SISDRR.
 These data and information will assists better building risk assessment and disaster protection planning in NEMA.

3.2 System and database development

- ▶ SISDRR developed and modified according to NEMA's needs and necessity.
- ▶ SISDRR users and their access privilege were officially approved by head of disaster administration and early warning center.
- ▶ During comprehensive disaster prevention training of Ulaanbaatar city in 24-26 April 2019, JET team and "Spatial information technology division" cooperatively work and created map of gathering place of citizens of Ulaanbaatar and we shared that map to social network and NEMA's websites.

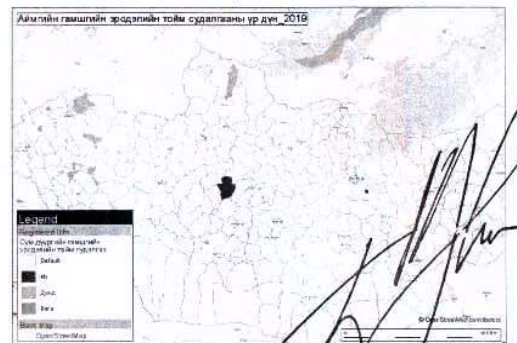


Utilization matrix on spatial information for disaster management

Disaster category	Disaster type	Name	Reference board	Response	Reconstruction	Preparedness
Natural disaster	Strong wind cyclone	Leaf map		Substructure leaf assessment map Power Adapter map	Map of reconstruction plan Substructure Leaf assessment map Power Adapter assessment map	Disaster and Disaster Preparedness board
		Identifying and response table Through table Plan table Risk map Vulnerability map	Identifying and response table Through table Plan table Risk map	Identifying and response table Through table Plan table Risk map Vulnerability map Risk map		
	Flood	Harvest map Flood assessment map Flood map Risk map Height of water table	Harvest map Flood assessment map	Flood map Flood structure map Map of reconstruction plan	Harvest map Flood assessment map Flood structure map Flood assessment map Preparation forecast	
		Farm and wild fire	Risk table map	Harvest area map Location of the pipeline, hydrology map	Harvest area map Map of forest land	Risk table map
Designed hazard	Earthquake	A historical data-processed technical map Calculation of earth Clash table map	Harvest assessment map	Harvest assessment map Map of reconstruction monitoring		
		Leaf table Landslide assessment map Monitoring map	Landslide assessment map	Landslide assessment map	Landslide assessment map Preparation forecast	
Human disaster	Accident disaster					Risk of infection disease

3.3 System and database development

Disaster risk assessment :
 Disaster risk assessment results of 10 provinces, 52 khoroo registered in SISDRR. Results of assessment will be shown as risk map in SISDRR.



Activities:

- Initialize the spatial information system for disaster risk reduction (SISDRR) in daily activities of NEMA.
- Organize SISDRR based training in regular basis
- Establish a new working group will be necessary for improving utilization of SISDRR and monitoring implementation of A/47 Order approved by Head of NEMA in 20th Feb 2019.

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Challenges:

- One skillful staff position will be required in NEMA to develop SISDRR continuously and the development of similar systems
- For the insure the smooth operation of SISDRR, increase capacity of current server.

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Output of WG2 Activity

WG2

Overview

- Analysis of the existing manual of seismic evaluation
 - Issues identified in the analysis were reflected to guidelines newly developed.
- Development of guidelines of seismic evaluation
 - The Mongolian procedure was taken to make guidelines normative documents
 - Both seismic evaluation and retrofitting were included in one guideline
- Implementation of training on seismic evaluation
 - From June 4th to 7th, 2018 for seismic evaluation
 - From Nov. 12th to 13th, 2018 for seismic evaluation equipment
- Development of guidelines of seismic retrofitting
 - Included in guidelines of seismic evaluation
- Trial retrofitting design
 - Trial design was conducted for five buildings.
- Implementation of training on seismic retrofitting
 - From May 1st to 3rd, 2019

Overview of Output and Indicator

Outputs	Objectively Verifiable Indicator	Achieved Value
Capacity of public administration officer related with the seismic assessment and seismic strengthening for buildings will be enhanced.	<ul style="list-style-type: none"> • To establish seismic assessment methods for buildings, infrastructures and lifelines • To implement training program on seismic assessment 	<ul style="list-style-type: none"> • GLs on Seismic Evaluation of Buildings (3 GLs : RC, PC and Masonry) • GL on Seismic Evaluation on Infrastructures and Lifelines • Manual to Support Training Program Implementation
	<ul style="list-style-type: none"> • To develop seismic strengthening guidelines for buildings in the country • To implement training program on seismic strengthening 	<ul style="list-style-type: none"> • Guideline for seismic assessment 4 (approved) / 4 (planned) • The number of the participants in the training program on seismic assessment total 244 (at planned program) total 491 (actual, incl. YoT)
	<ul style="list-style-type: none"> • To develop seismic strengthening guidelines for buildings in the country • To implement training program on seismic strengthening 	<ul style="list-style-type: none"> • GLs on Seismic Strengthening of Buildings (3 GLs : RC, PC and Masonry) • Trial Designs of Rebuilding and Strengthening Construction (5 kinds of buildings) • Manual to Support Training Program Implementation
		<ul style="list-style-type: none"> • Guideline for seismic strengthening 3(approved) / 3 (planned) • The number of training programs on seismic strengthening total 65 (at planned program) total 107 (actual, incl. YoT)

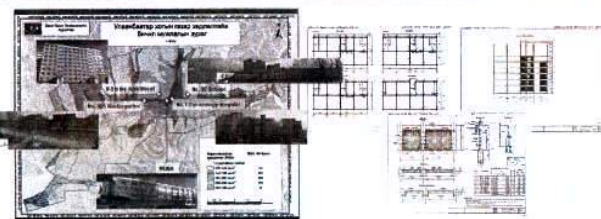
Development of Guidelines

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

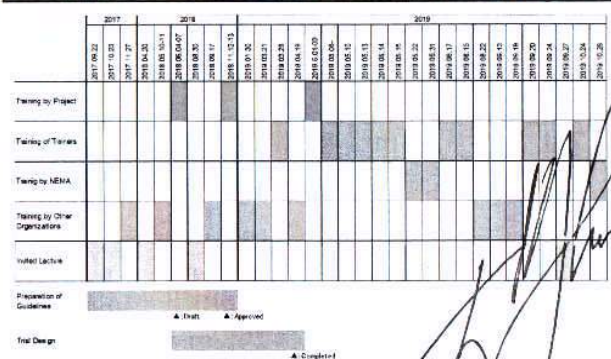


Trial Retrofitting Design

Structural Type	Usage	Name	Location	Note
Masonry	Kindergarten	No. 106 Kindergarten	Songjio 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 for emergency response
RC	Hospital	No.1 Gynecology Hospital	Sukhbaatar District	One of few RC hospital buildings
PC	Apartment House	9-Storey Apartment	Bayengol District	Apartment house based on standard design



Technical Transfer through Training



Conducting Training for Seismic Evaluation

Date	Venue	Purpose	No. of Participants
2018.6.4-6	CDC Conference Room	Learn the method of seismic evaluation of buildings	110
2018.6.7	CDC Conference Room	Learn the method of seismic evaluation of infra- and lifeline structures	70



Exercise of seismic evaluation for buildings using Excel spreadsheet



Lecture of seismic evaluation for Infra- and Lifeline structures

Conducting Training for Seismic Evaluation Equipment

Date	Venue	Purpose	No. of Participants
2018.11.12-13	CDC Conference Room	Learn the non-destructive testing for seismic evaluation	64



Measurement of concrete compressive strength using Schmidt Hammer



Measurement of location and diameter of reinforcement using Profo-meter

Conducting Training for Seismic Retrofitting

Date	Venue	Purpose	No. of Participants
2019.5.1-3	Disaster Training Center & CDC Conference Room	Learn the seismic retro fitting method and design	65



Lecture on seismic retrofitting calculation based on trial design



Introduction of retrofitting works conducted in Japan

Conducting Training of Trainers

- Purpose
 - To transfer and disseminate the technology on seismic evaluation to relevant organization through WG2 members
- Target organization
 - Organizations which WG2 members belong to
 - Private sector
- Method
 - Preparation of training manuals



To NEMA



To GASI (building)



To GASI (lifeline)



To MCLUD & CDC



To UBUDA

Outcomes: Capacity Building through Self-reliance and Sustainable Technical Transfer

- Preparation of approved guideline
 - Guidelines were approved as Ministerial Orders to have power of the law.
- Fostering Trainers
 - Some officers and engineers obtained the capacity to train other trainees.
 - Supporting materials, such as seismic evaluation tools, design drawings and training guidelines were prepared and arranged through project.
- Collaboration with private sector
 - Being involved as MACE's training program realizes sustainable technical transfer.



Training as MACE's program

Achievement

- To establish seismic assessment methods for buildings, infrastructures and lifelines
 - Guideline for seismic assessment >> 4 (approved) / 4 (planned)
- To implement training program on seismic assessment
 - The number of the participants >> 491 (actual, including ToT) / 244 (at planned program)
- To develop seismic strengthening guidelines for buildings in the country
 - Guideline for seismic strengthening >> 3 (approved) / 3 (planned)
- To implement training program on seismic strengthening
 - The number of the participants >> 107 (actual, including ToT) / 65 (at planned program)

Utilization of Project Output

- Current
 - **NEMA** implements training of risk evaluation using the guidelines.
 - **UBMUD** started to use guidelines in case of providing passport of buildings, especially of brick masonry ones.
 - **MACE** started training courses of seismic evaluation and retrofiting, in which the guidelines are referred.
- After Project
 - **MCUD** will instruct to use the guidelines in providing passport of building in local areas.
 - **GASI** will refer the guidelines when checking the passport of building.
 - **GASI** will also refer the guideline of infra- and lifeline structures in case of revising current checklist.
 - **CDC** will establish new section that implement seismic evaluation of buildings. Guidelines and seismic evaluation equipment will be utilized by the new section.

- Thank you for your kind attention!!



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THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA
9th Joint Coordinating Committee (JCC) Meeting

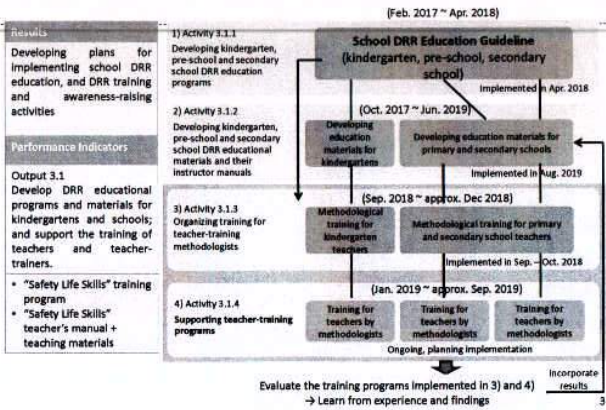
Sub-WG 3.1: School DRR Education Progress Report

2019.11.5

Sub-WG 3.1 Members School DRR Education

Mongolia Side	Japan Side
MECSS Miyamar. I	DRR Education I Miki Kodama (Ms.)
MECSS Gantsetseg.Ch Baljinnyam.P	DRR Education II Yujiro Ogawa (Dr.) (till Mar. 2018)
ERI (Education Research Institute) Enkhstogtokh.A Erdenechimeg.B	Seiji Suwa (Mr.) (from Apr. 2018)
ERI (Education Research Institute) Mongolkhutain.G Huihan.G	Development of DRR Education Materials Yoko Ota (Ms.) Amarjagal.N
NEMA Disaster Prevention Department Bat-Erdene. D Enkhtsolomon. G	Community Disaster Management Toshikazu Hiwaki (Mr.)
ITPD (Institute of Teachers' Professional Development) N. Munkhbayar	Local Consultant Dashiidov.G Adiyanyam.D
	Local Consultant Bolormaa. T Local Staff Byambasuren.S

Output 3-1: Overall Activities for School DRR Education



Output 3-1: Overview of School DRR Education in Japan

Japanese textbooks and teaching materials

Analysis on the current state of DRR education in Mongolian schools

Demonstration lesson by a Japanese expert

Training in Japan (conducted 2 times)

- Visiting the Center for Mankind and the Future of DRR
- Visiting the Honjo Bosai Center

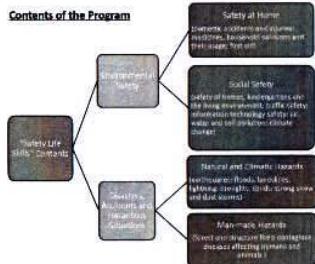
Activity 3.1.1: Developing the "Safety Life Skills" DRR Educational Program for Schools

• Approved through decree A181 of the Minister of Education, Culture, Science and Sports on April 6, 2018.

Goal of the Safety Life Skills Program

- 2.1. Pre-School Education**
With the support of teachers, parents and guardians; young children will be able to visualize hazardous situations, learn safety habits and self-protection methods, and be able to ask for help as well as help others.
- 2.2. Primary Education**
Children will be able to visualize potential hazardous situations, take preventive and self-protection measures, make decisions and take correct action.
- 2.3. Basic Education**
Children will be able to visualize potential hazardous situations, maintain safety preparedness, protect themselves and others, provide first aid, and take correct safety actions.
- 2.4. Secondary School**
Children will be able to visualize potential hazardous situations, take responsive action, provide first aid, participate in volunteer work, and become a resilient citizen that values safe and correct life habits.

Contents of the Program



Activity 3.1.2: Conducting Test Lessons in Relation to Developing the Teacher's Manual for Implementing the "Safety Life Skills" Program

• Test lessons were conducted in relation to developing the teacher's manual (May 1-2, 2018)

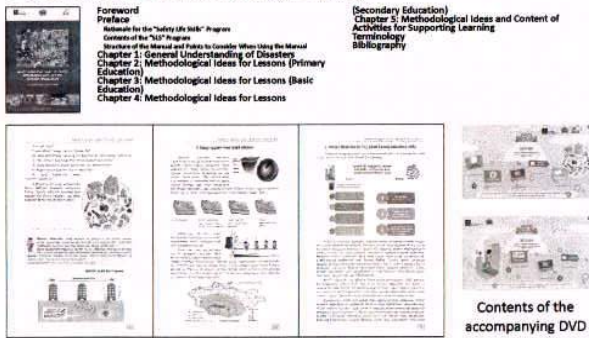
8 th Grade Lesson 45 min	5 th Grade Lesson 45 min	Upper Kindergarten Lesson 30 min
"One Day Before" Project 1. History of earthquakes in Mongolia (slides) 2. Why do earthquakes occur? (slides) 3. What damages are caused by earthquakes? (slides) 4. Team discussion and presentation on the subject: "An earthquake will happen tomorrow. What will you do?" 5. Conclusion: Learn about preparedness and responsive action	"Let's Build an Earthquake-Resistant Building" 1. What will happen during an earthquake? (slides) 2. Build an earthquake-resistant building with a milk carton 3. Presentation of results 4. Compare with real-life methods and discuss	"How to Protect Yourself During Earthquakes?" 1. What is an earthquake? 2. What will happen if an earthquake occurs now? 3. Find dangerous spots in the classroom 4. About the three dangers: "Danger of falling from above", "Danger of falling from the sides", "Danger from breaking" 5. Playing the "DRR Duck" game



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Activity 3.1.2: Developing Teaching Materials Developing the Teacher's Manual for the "Safety Life Skills" Program (1)

● Secondary School Teacher's Manual (200 pages)



Foreword
Preface
Rationale for the "Safety Life Skills" Program
Contents of the "SLSS" Program
Structure of the Manual and Points to Consider When Using the Manual
Chapter 1: General Understanding of Disasters
Chapter 2: Methodological Ideas for Lessons (Primary Education)
Chapter 3: Methodological Ideas for Lessons (Basic Education)
Chapter 4: Methodological Ideas for Lessons

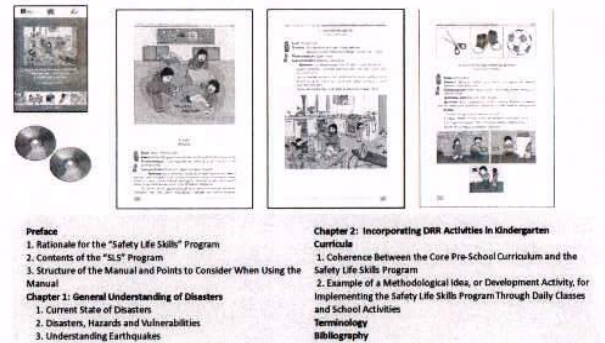
(Secondary Education)
Chapter 5: Methodological Ideas and Content of Activities for Supporting Learning
Terminology
Bibliography

Contents of the accompanying DVD

7

Activity 3.1.2: Developing Teaching Materials Developing the Teacher's Manual for the "Safety Life Skills" Program (2)

● Pre-School Teacher's Manual (80 pages)



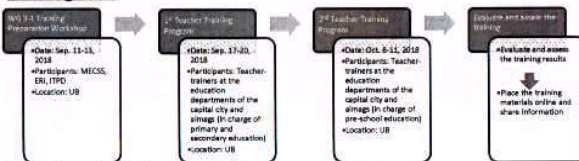
Preface
1. Rationale for the "Safety Life Skills" Program
2. Contents of the "SLSS" Program
3. Structure of the Manual and Points to Consider When Using the Manual
Chapter 1: General Understanding of Disasters
1. Current State of Disasters
2. Disasters, Hazards and Vulnerabilities
3. Understanding Earthquakes

Chapter 2: Incorporating DRR Activities in Kindergarten Curricula
1. Coherence Between the Core Pre-School Curriculum and the Safety Life Skills Program
2. Example of a Methodological Idea, or Development Activity, for Implementing the Safety Life Skills Program Through Daily Classes and School Activities
Terminology
Bibliography

8

Activity 3.1.3: Training of Methodologists and Teacher Trainers

Training Plan



Training Contents

- The Principles and Main Contents of the "Safety Life Skills" Program
- The DRR Framework and Measures Being Taken Against Disasters in Mongolia
- General Understanding of Disasters and DRR
- General Understanding of DRR Education
- Best Practices for DRR Teaching
- DRR Educational Tools and Materials
- Workshop: Practice-based Teaching Method, Developing DRR Education Plans and Developing Teacher-Training Programs.

9

Activity 3.1.3: Teacher-Training Programs (1st Training: For Methodologists in Charge of Primary and Secondary Education)

- Training Date: September 17-20, 2018
- Participants: 60 participants from the education and culture departments of aimags, the capital city and districts
- Objective of the Training: Implement the training based on the "Safety Life Skills" program in each aimag (Participants shall organize teacher-training programs and ensure sustained educational activities)



- ➔ Develop the methodological ideas for lessons based on the "Safety Life Skills" program, conduct test lessons and acquire an understanding of how to conduct lessons.

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Activity 3.1.3: Teacher-Training Programs (2nd Training: For Methodologists in Charge of Pre-School Education)

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



- Reviewed the teaching methods of Kindergarten 61 in Bayanzurkh District which is implementing DRR education as a model example, and included contents appropriate for pre-schools such as picture books, activities using paper stories, and drawing earthquake situations after listening to accounts about them.

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

- Training date/location: December 27-28, 2018/Kindergarten No. 61
- Training participants: 50 methodologists and principals of kindergartens in Bayanzurkh District
- Instructors: Emergency management department of Bayanzurkh District, ERI, MRCS, JET
- Training objective: Support the implementation of the "Safety Life Skills" training program



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**Activity 3.1.4 : Supporting the DRR Training for Teachers
(Activity 1 on the Trial Schools and Kindergarten)**

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

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**Activity 3.1.4 : Supporting the DRR Training for Teachers
(Activity 2 on the Trial Schools and Kindergarten)**



Achievement of Project Results and Performance Indicators (Output 3.1)

Expected Result	Performance Indicator	Achieved Result
Output 3: Develop the plan for implementing DRR education and awareness raising activities	<p>Output 3.1 Develop the "Safety Life Skills" program for schools and kindergartens, along with its associated educational materials; and conduct training for educational methodologists</p> <ul style="list-style-type: none"> • "Safety Life Skills" Program • Teacher's manual + educational materials for the "Safety Life Skills" program 	<ul style="list-style-type: none"> • The number of lessons on DRR that were conducted based on the Project results: The development and printing of the manual finished in October 2019 and was distributed to schools, kindergartens and the relevant organizations according to the schedule approved by MECOS. The manual will be used in lessons starting from the 2nd period of the 2019 school year. Furthermore, a joint-decree on "Supporting the Implementation of the Safety Life Skill Program" by the Minister of Education, Culture, Science and Sports and the Deputy Prime Minister is being prepared.

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Utilization of Results, Further Activities

- Training on the "Safety Life Skills" program was conducted with the participation of methodologists from 21 aimags and 9 districts; and the methodologists from the education departments of aimags, the capital city and districts acquired an understanding of the necessity and importance of DRR education.
→Raising awareness of the program and conducting training in all aimags and districts is necessary
- Improving the manual for implementing the "Safety Life Skills" program: Moving forward, the contents will be adjusted based on the implementation of the "Safety Life Skills" program (including DRR content) in schools and kindergartens. Regularly improving the content and adding other types of disasters and risks not included in the manual.
- Other Recommendations
 1. Incorporate the contents of the "Safety Life Skills" program in the 3rd grade graduation test conducted by the Education Assessment Center in secondary schools.
 2. Conduct separate proficiency tests for health class and the "Safety Life Skills" program since it is challenging to determine proficiency results for these subjects using traditional education assessment methodology.
 3. Include the contents of the "Safety Life Skills" program in the self-assessment sheets of schools.
 4. Incorporate the contents of the "Safety Life Skills" program into a textbook.

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Sub-WG 3.2 Progress of Activities

THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA
9TH JOINT COORDINATING COMMITTEE (JCC) MEETING

November 5, 2019

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Sub-WG 3-2 Members

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

WG 3-2 Regional DRR Education

Output	Output 3: Developing the plan for implementing DRR education, training and awareness-raising activities.
Performance Indicator	Output 3.2: Develop DRR training and awareness-raising materials and support the implementation of training for citizens and target groups

▶ **Activity 3.2.1 Developing a comprehensive planning framework for DRR education and awareness-raising; improve training and awareness-raising efforts**

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

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

▶ 2

Activity 3.2.1 Developing a comprehensive planning framework for DRR education and awareness-raising (1)

The DRR Training and Awareness-Raising Team was formed

▶ The DRR Training and Awareness-Raising Team led by the Disaster Prevention Department of NEMA and supported by World Vision Mongolia and Save the Children was formed and the working procedure of the team was approved.

▶ The aim of the team is to comprehensively plan and implement DRR training and awareness-raising activities, improve the coordination of government organizations and NGOs, increase efficiency and openly provide training and awareness-raising information to the public.

▶ The team members are DRR-oriented government organizations, NGOs, international organizations, projects and programs.



Activity 3.2.1 Developing a comprehensive planning framework for DRR education and awareness-raising (2)

Developing a website for disseminating information on DRR training and awareness-raising

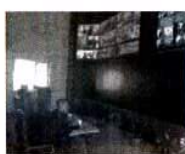
▶ A comprehensive planning system for DRR education and awareness-raising activities and providing DRR training information has been developed with its manual and placed on the www.ontsgoisur.gov.mn website in January 2019.

▶ Online and classroom-based training for this system was organized for a total of 78 executives and specialists of disaster prevention departments of the 21 aimags and 9 districts; as well as members of the DRR Training and Awareness-Raising team.

▶ The trial run for the system was implemented between February-April, 2019 and became officially operational in May. From February 2019 to October 2019, a total of 224 training programs were scheduled.



Public announcement page with information on training programs on the calendar



Training in session

Activity 3.2.2 Developing DRR education and awareness-raising materials, and conducting training in selected regions (1)

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

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

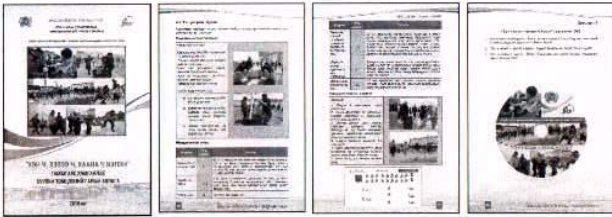
Training for Citizens: A total of 200 citizens from the 23rd khoroo of Bayanzurkh district, the 2nd khoroo of Bayangol district and the Uliastai and Otgon soums of Zavkhan aimag have participated.



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Handwritten marks and signatures.

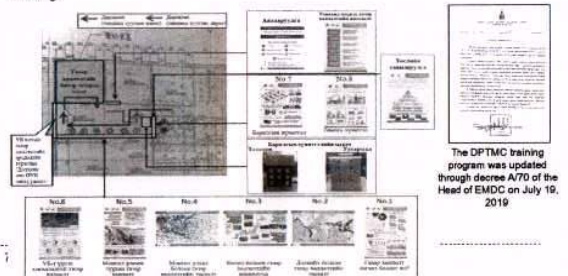
Activity 3.2.2 Developing DRR education and awareness-raising materials, and conducting training in selected regions (2)



- > The manual for the relay race containing information on the activities and issues to pay attention to for each relay point was developed and distributed to the relevant organizations in aimags and districts.
- > Furthermore, NEMA printed an additional 1,000 copies with the support of MRCS and distributed them to the relevant organizations in order to expand the Project operations nationwide.
- > The contents of the relay race were prepared in video format.

Activity 3.2.3: Developing training materials for the DPTMC and organizing training (1)

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



The DPTMC training program was updated through decree A/70 of the Head of EMDC on July 19, 2019.

Activity 3.2.3: Developing training materials for the DPTMC and organizing training (2)

• **Developing training materials for the children's room and the earthquake protection corner**

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



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

Achievement of Project Results and Performance Indicators (Output 3.2)

Expected Result	Performance Indicators	Achieved Result
Output 3: Developing the implementation plan for DRR education, training and awareness-raising.	Output 3.2: Develop materials for DRR training and awareness-raising, and support the implementation of training for citizens and target groups. • Manual + materials for the relay race • Training program + materials for the DPTMC • Website for the comprehensive planning of DRR training and awareness-raising	• People who have visited the DPTMC 24,737 people (9,041 students, 15,696 others) (Earthquake experience simulation room, 16,820) (From March 2019 to September 17, 2019)

Utilizing and Expanding Project Results

- Ensuring the necessary framework, budget and human resources for continuing the implementation of activities in areas beyond the test aimags and districts:
An assignment from the Director of the Disaster Prevention Department of NEMA to utilize the "Be Ready!" and "Anyone, Anywhere, Anytime is Ready" packages for organizing races, preparing training packages and utilizing them in training was delivered (2018)
- Analysis related to continuing the activities of the "DRR Training and Awareness-Raising Team" formed within the framework of the Project
- Develop materials for all types of participants (in classrooms, participants of various ages)
- Establishing the DPTMC in other regions (for example, a center in each of the 4 regions)
- Ensure the necessary budget, utilization and maintenance for the training materials and equipment of the earthquake experience simulation room and the children's room at the DPTMC.

THANK YOU FOR YOUR ATTENTION!

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