MINUTES OF MEETING

ON

THE EIGHTH JOINT COORDINATING COMMITTEE MEETING FOR

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

Joint Coordinating Committee (hereinafter referred to as "JCC") for the Project for Strengthening the National Capacity of Earthquake Disaster Protection and Prevention in Mongolia (hereinafter referred to as "the Project") held its eighth meeting on June 5, 2019 from 10:00 to 12:00, at Conference Room of National Emergency Management Agency (hereinafter referred to as "NEMA"), Ulaanbaatar, Mongolia, chaired by Mr. Tsogtbaatar Ganzorig, Deputy Chief, Colonel, NEMA on behalf of chaired by Mr. Badral Tuvshin, Chief and Major General, NEMA and supported by Mr. Kiyotaka Owada representing the Expert Team dispatched by the Japan International Cooperation Agency (hereinafter referred to as "JICA"). JCC members were invited and attended to the JCC. The list of the participants and agenda of the meeting are provided in Annex 1 and Annex 2, respectively.

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

田村到多

Ms. Eriko Tamura

Chief Representative

Mongolia Office

Japan International Cooperation Agency

和田清隆

Japan

Mr. Kiyotaka Owada

Team Leader

JICA Expert Team

Japan

Mr. Badral Tuvshin

Chief, Major General

National Emergency Management Agency

Ulaanbaatar, June 5, 2019

Mongolia

Mr. Batkhuu Idesh

Director General

Development Financing Department

Ministry of Finance, Mongolia

ATTACHED DOCUMENT

1. Progress of Activities for each Working Group

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

2. Nominating Officers for the Working Group Members

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

Mongolian side submitted the member list of the C/P WG that was amended from the member list approved in the seventh JCC on February 1, 2019 in order to respond to changes in members' positions and conduct more effective WG activities. JCC members agreed about the amended member list of WG as shown in the Annex 4.

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

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

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

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

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

To keep on making efforts to get the approval of all guidelines and manuals formulated in the WG1 activity on a continuous basis.

♦ To make special efforts to get approval of revised Local Earthquake

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

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

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

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

6. Next JCC meeting and Seminar

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

7. Question and Answer on the JCC

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

8. Others

7.

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

3 |

Annex 1: List of participants

Annex 2: Agenda of the JCC meeting

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

Group

Annex 4: Working Group Member List

Annex 5: Amendment of Objectively Verifiable Indicators for Overall Goal and Project

Purpose in Project Design Matrix

Annex 6: Progress toward the achievement of Project Outputs

Annex 7: Question and Answer in the JCC meeting

AI WAS

Date: 2019/6/5

Place: NEMA Conference Room (1st Floor)

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

Name	Position, Organization	E-mail/ Tel	Signature
T.Badral Ts. Ganzori q	Chief, Major General, NEMA		Cola
ط 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		Jerret
Yo.Jargalsaikhan	Referent of National Security Council		1
L.Ulziibayar	Director, Policy Coordination and Cooperation Department, NEMA	39165574 ulzino603@gduoo.c	fm /
D.Jargal	Director, Infrastructure and State Inspection Department, General State Inspection Agency	dipagas an	Flund
T. Batkhuu	Director, Development Financing and Debt Management Department, Ministry of Finance		9
J.Myagmar	Director, Division of Preprimary and Primary Education, Ministry of Education, Culture, Science and Sports	myagmanoinecs.	nerens
P.Bayarkhuu	Vice Mayor of the Capital City in charge of Urban Development	, and the second	
N.Ulambayar	Director, Emergency Management Department of the Capital City (EMDC)		7
G.Enkhtuya	Director, Construction Quality and Safety Division, Master Planning Agency of Capital City	ancheyalwion,	My
Eriko Tamura	Chief Representative, JICA Mongolia office	Tamura, eriko Qjila, go.jp	田村 2113
Makiko Inamori	Project Formulation Advisor, JICA Mongolia Office	Inamori, Makikoz Ojica.go.jp	稍森 真希子.
Ch.Munkhmanlai	Program Offier, JICA Mongolia office	Chiabay munkhmana (2) ica .go.jp.	Mifal
Fumiya Niwa <observer></observer>	Second Secretary for Economic relation and ODA Program, Embassy of Japan in Mongolia	d	经国文

Date: 2019/6/5

Place: NEMA Conference Room (1st Floor)

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

Name	Position, Organization	E-mail/ Tel	Signature
S. Munkhdul	CDC	1818888@gmail 89243242	A 100 b
Bat-Endene. D	NEMA	eesiilsssa (The state of the s
Bayar Baatar.	NEMA	Barara 109	Star .
Bayan munich. B	NEMA	agmil on	Jany -
S. Sodnonezgo koz	NEMA	Sodnompegenous Egwilcom	Dfofter
J. Im biles.	JET.	446461E9-046	M. Snadennes.
N. Ganchimes	eAG!	ganski meg 9372 (a yaka com	Just.
O. Tsend-Ayuz	NEILLA	tse01 mgla gmail.com	olt 2
K. Owada	TET	0	311
Osamu NISHI	JET	nishii@eyoiutar.a	m 两年理
D.Odboyar	JET	od to 07@ gahos.	on d.Ogsory
T. Hiwaki	JET	h!walci @ocglobal.jp	The About
A. Dashdorj	TET	charod degrusor	Doubper.
Tunggard	JET	Tomengeral b a grail. con	Myumrsjone.
N. Amerjagge	JET	ninejn568@ fmail.com	Lyce
7. Erdenebot	JET	erdene 70 msn. com	9.2pm 11

Date:		

Place: NEMA Conference Room (1st Floor)

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

Name	Position, Organization	E-mail/ Tel	Signature
Tux - Fygus	JET	96956059	Duopon Theorys -
D.Murun	JE7	99057365	Дморон
7. Bolormae	JET	99736052	Theres -
		,	
			1





"THE PROJECT FOR STRENGTHENING THE NATIONAL CAPACITY OF EARTHQUAKE DISASTER PROTECTION AND PREVENTION IN MONGOLIA" Agenda for 8th Joint Coordination Committee (8th JCC)

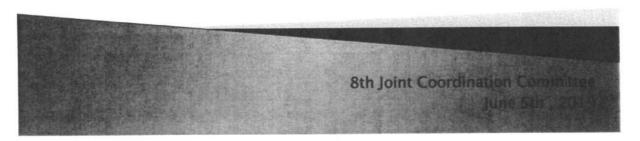
Date: June 5th 2019 **Time**: 10:00~11:50

Venue: NEMA Conference Room

lo.	Time	Agenda	Presenter
	9:50-10:00	Registration	
1	10:00-10:10 (10min)	Opening Remarks from NEMA	Mr. Ts.Ganzorig Deputy Chief, Colonel, NEMA
2	10:10-10:20 (10 min)	Opening Remarks from JICA	Ms. Eriko Tamura Chief Representative, Monglia Office, JICA
3	10:20-10:25 (5 min)	Overview of Project Activity and Schedule	Mr. Kiyotaka Owada Team Leader, JICA Expert Team
4	10:25-10:40 (15 min)	Progress of WG1 Activity	<sub-wg1-1 1-4="" to=""> B.Bayanmunkh Policy Coordination and Cooperation Department, NEMA <sub-wg1-5> D.Sodnomragchaa Spatial Information and Technology Division, NEMA</sub-wg1-5></sub-wg1-1>
5	10:40-10:55 (15 min)	Progress of WG2 Activity	<sub-wg2-1 2-3="" to=""> S.Munkhdul Construction Development Center</sub-wg2-1>
6	10:55-11:10 (15 min)	Progress of WG3 Activity	<sub-wg3-1> J.Myagmar MECSS <sub-wg3-2> D.Bat-Erdene Disaster Prevention Department, NEMA</sub-wg3-2></sub-wg3-1>
7	11:10-11:30 (20min)	Discussion and Confirmation on: - Amendment of Working Group Member - Confirmation of the Achievement of the Project Purpose based on Indicators - Discussion How to Evaluate the Achievement of the Overall Goal including items of Indicators - Schedule of Next JCC - Others	Project Coordinator, NEMA Discussion with All Participants
8	11:30-11:40 (10 min)	- Closing Remarks	Mr. D.Batsaikhan Director of Disaster Prevention Department, NEMA

Progress of the Project

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



Progress toward the achievement of Project Outputs

<As of May 2019>

Project Output	Expected outcomes developed through the Project activity Project Activity Blue: Ongoing in the WG Activity, Red: Completed by WG Activity		gh the Project activity Completed by WG Activity	Progress toward the actslevement of Project Outputs (PDM)
		Products (Documents/tools)	Human and Organizational Development	Progress (As of May 20 19)
. Capacity for lata collection on lassister risk reduction and coordination smong related progenizations will be enhanced.	1.1 To Improve frameworks for disaster risk reduction by reflecting the Amended Law on Disaster Protection	GL on Earthquake Disaster Risk Assessment GLs an Earthquake Disaster Protection Planning (4 GLs ber "Melonant", "State", "Almay Soum", "Capital City/ GL on Operation and Management of Spatial Information System for Disaster Risk Reduction Manual to Support Earthquake Disaster Protection Planning Manual to Support Earthquake Disaster Protection Manual to Support Earthquake Disaster DRR Manual to Support devolupement of White Paper for DRR Manual to Support devolupement of White Paper for DRR	 Improvement of rules and provisions by reflecting the Amended Law on Disaster Protection Capacity enhancement or NEBAS, EMDC and regional EMDs through the pilot activity based on GLs 	The number of guidelines, operational rules, and providens which are developed. J. (approved.) /9 (planned to be developed.) Provided, remaining 4 documents have strendly been drafted.
	1.2 To strengthen cooperation among related organizations for disaster risk reduction	Agreements on cooperation among governmental agencies and related organizations for DRR actions: (9 agreements planned to developed) Agreements on spotial detabase exchange among the DRR related organizations (2 agreements planned to developed)	 Capacity enhancement for conclusion of agreements and accumulation of know-how in the conclusion of the control of the Enhancement of cooperation among governmental agencies and related organizations 	* The incumber of the draft of agreements developed 1 improved /.1 [[planned to be developed] 4 agreement have already been signed afficially. The number of participants who participated to the training programs on agreements: 38 trainers [Apr. 8, 2015]
	1.3 To improve monitoring and information gathering methods for national and local disaster protection plans	Earthquake Disaster Protection Plans in pliet aimage and Districts (2 aimage and 2 Districts in UB city) White Paper for DRR in 2017, 2018 Spattal information System for Disaster Risk Reduction Including Disaster Spatial Database	 Pilot Activity for local earthquake disaster protection planning in the pilot area 'Training program on operation and management of spatial information system for DRR intended for NEMA, EMIDC and regional EMID 	White Paper her Disseter Bid: Reduction 3(approved) / 2 (pleaned to be developed)
2. Capacity of public administration officer related with the sessatic assessment and seismic strengthening for buildings will be onhanced.	2.1 To establish selsmic assessment anotheds for casessment anotheds for buildings, infrastructures and Briefines in the country, and to implement training program on selsmic assessment	GLs on Selsmic Evaluation of Buildings (3 GLs : RC, PC and Maseinty) GL on Selsmic Evaluation on Infrastructures and Ilfellines Manual to Support Training Program Implementation	Training program on setsmic evaluation on buildings, infrastructures and Belinus Training of trainers on Hostering engineers who have exportise in Setsmic Evaluation of buildings	Out delitys for retired; assessment disappearout; 2.5 parents are supported in the service of the participants in the training of the participants in the training program on selecting assessment 190 trainings (Sep. 3.2019; 25 prolines; (Sep. 3.2019; 27 prolines; (Sep. 3.2019; 27 prolines; (Sep. 3.2019; 27 prolines; (Sep. 3.2019; 27 prolines; (Mar. 28 2019; 27 polarisation of Gla 21 trainings; (Mar. 28 2019; 27 polarisation of trainings; (Mar. 28 2019; 27 polarisation of Gla 21 trainings; (Mar. 28 2019; 27 polarisation of trainings; (Mar. 28 2019; 27 polarisation of Gla 2019; 27 polarisatio
	2.2 To develop selsetic strengthening guidelines for buildings in the country, and to implement training program on selsetic strengthening	GLs on Seismic Strengthening of Bulldings (B GLs : RC, PC and Missonry) Trial Designs of Rebuilding and Strengthening Construction (B kinds of buildings) Manual to Support Training Program Implementation	Training program on seismic strengthening on buildings Training of trainers on fostering engineers who have expertise in Selamic Strengthening of buildings	Guideline for selectic strengthening 3[approved] / 3 (planned to be developed) The number of featining programs on selections strengthening 65 A: May, 1-5, 2019)
2. Implementation plan on disaster risk reduction education and awareness relaing activities will be developed and	disester risk reduction education and educational materials in kindergartens and schools, and	GL titled "The Program for Life Safety Education" Guidebook for teachers to Implement lessons based on the GL. "The Program of Life Safety Education	Training program for the instructors of Teacher Training Institutes and experts of educational departments in local governments (Kindergarten, Primary school, Lower-econdary school) Training program for teachers by the Instructors and experts who received the training programs (Kindergarten, Primary school, Lower-econdary school)	The number of the case of delivering them on distance fair, the case of the same of the case of the case of the case of the fair of the Fragett Cases on DM admitted will be found from Sqs. 2019
	moterials for selection	DEE Training Materials for the Community Disaster Prevention and Simulation Program with related Materials in the Disaster Protection Training and strong Center Analysis of Straining schedule	Training for trainers on DRR Experience Fregram Mist activity of workshops for DRR Awareness raising Enhancement of cooperation among related organizations	The number of stateon in the Training Centers Total 5.00 (12.200 students and 2.600 cylann visitors from 23 Mar. to 27 May 9019

Progress of WG1 Activities

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



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

Progress of Activities

EARTHQUAKE DISASTER RISK EVALUATION GUIDELINE (Regional Level)

- 1. Introduction
 - 1.1. General Provisions 1.2. Purpose of the Guideline
 - 1.3. Scope of the Guideline
- 2. Earthquake Risk Evaluation Methodology and Procedure

 - 2.1. Terminology 2.2. Required Information
 - 2.2.1. Determining Earthquake Risk 2.2.2. Earthquake Risk Analysis

 - (Simplified Method)
 - 2.2.3. Earthquake Risk Analysis (Comprehensive Method)
 - 3.3.4. Earthquake Risk Evaluation **Developing Recommendations**
 - og Risk Evaluation Results in DRR Plans
 - Earthquake Risk Evaluation Report

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

> Developing the Disaster Risk Evaluation Guideline

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

Implementation of the Disaster Risk Evaluation Guideline

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

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

Progress of Activities

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

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

Test Regions for Developing and Refining Earthquake DRR Plans

Darkhan-Uul and Omnogovi almags

- > May 2018
- September 2018 > November 2018
- > January and February, 2019
- April 2019 in Darkhan-Uul, and May 2019 in Omnogovi
- Earthquake DRR plans for almags will be fully developed in September 2019.
 Obtained feedback on the contents of the
- guideline, and incorporated them into the
- Disaster prevention and risk reduction plans > are in the finalization stage.
- > August 2018 September 2018 December 2018

Bayangol and Chingeltel Districts of Ulanhastar

- January 2019
- > May 2019
- Earthquake DRR plans for capital city districts will be fully developed in September 2019.
- Currently obtaining feedback on the contents of the guideline.
- Disaster prevention and risk reduction plans are in the development stage.

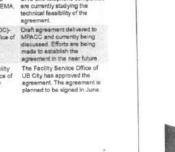
Review by regional DRR committees and approval by the relevant

Sub-WG 1-3: Cooperation Agreements

	Contents	Organizations	Progress
Food	Organize stable supply of foods and water to disaster victims in evecuation 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 phermaceutical 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 Meterial Manufacturers, Construction Association	The data for signing the agreement is being scheduled, and the agreement is planned to be established in the near future.
Clean water	Organize stable water supply at in regions struck by disaster	NEMA-Water Management Authority	The Water Management Authority approved the draft agreement. Feedback from NEMA givelions and the agreements being prepared for signing.
Road and transport	Providing road and transport means necessary for organizing search and rescue, damage mitigation, and immediate restoration activities without delay in regions struck by diseaser	NEMA-MRTD	Draft agreement shive pet to MRTD. The regular of the Depital City Comprehensive Training has in Arth to restaurate in the pet to th

Sub-WG 1-3: Cooperation Agreements

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



Sub-WG 1-4: DRR White Paper

Further Activities

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



Sub-WG 1-4: DRR White Paper

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





Spatial Information System for DRR

SUB WORKING GROUP 1-5

8" JCC 2019.6.5

Contents:

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

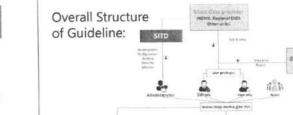
1.Development of Guideline and Manuals



"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



Contract Contract Tomas vertical provides Doubt share provides provides

I-DSIS

2. Capacity Enhancement of Human Resource

- 5
- ▶ JET and "Spatial information technology division" was jointly organized 3rd capacity enhancement technical training of spatial information system for DRR (I-DSIS) for communication and early warning staffs of 21 regional EMD in 30 April 2019. Object of training was explaining in detail about contents of approved guideline as well as introduced latest improvement of I-DSIS.
- ▶ 35 participants were participated in training





2.1 Capacity Enhancement of Human Resource



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



2.2 Capacity Enhancement of Human Resource



Utilization of I-DSIS is not only for regional EMD but also will needed to utilized in Central NEMAS staffs for better emergency response, planning and policy making etc. Therefore JET and Spatial information technology division providing series of training for departments and division under the central NEMA based on their own functions.

EREWC

- Here is list of departments will trained:
- 1. Disaster Operation & Early Warning Command Center
- 2. Disaster Risk Management Dep.
- 3.Fire Dep.
- 4. Emergency response department
- 5 Natural Resource & Humanitarian Dep.
- 6. Disaster Prevention Dep.
- c 7. Policy Coordination & Cooperation Dep.

Risk Admin dep.

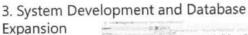
Snapshot of series training: EREWC

3. System Development and Database Expansion

▶ 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.
- Geospatial data of Ulaenbaatar has been shared to NEMA effectively according to the achievement of contract negotiation. For this (Soil, water, plant, Environment, urban planning, engineering infrastructure, building and construction, social-economic, aerial photo etc received) building distribution data have been received with full of information with seismic evaluation data through result of







dministration of land management, geodes and carlography (ALMGoC): NEMA and ALMGaC made contract negotiation in 2018.

Latest update: NEMA received 21 almags building distribution data with full of information

as well as road and engineering infrastructure data and all data stored in I-DSIS.

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



3. System Development and Database



I-DSIS developed and modified according to NEMA's needs and necessity. Users and their access privilege will be officially approved by head of NEMA.

During comprehensive disaster prevention training of Ulaanbaatar city in 24-26 April 2019, JET team and "Spatial information technology division" cooperatively work and created map of gathering place of citizens of Ulaanbaatar and we shared that map to social network and websites.



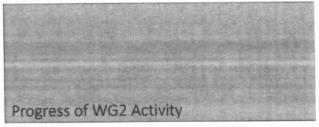
4. Challenges and Further Actions



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

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





WG2

Progress Overview | And | And

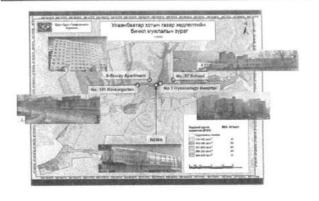
Development of Seismic Evaluation & Strengthening

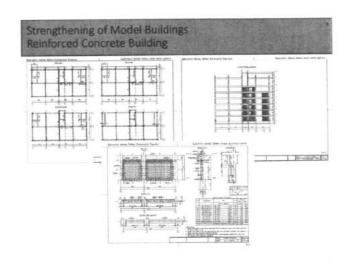
- Buildings
 - Approved by the 185
 Ministerial Order of
 2018.11.06 of Minister of
 Construction Urban
 Development
- Infrastructures & Lifeline Structures
 - Approved by the 174/303 Joint Ministerial Order of 2018.12.28 of Minister of Construction Urban Development and Road Transport Development.

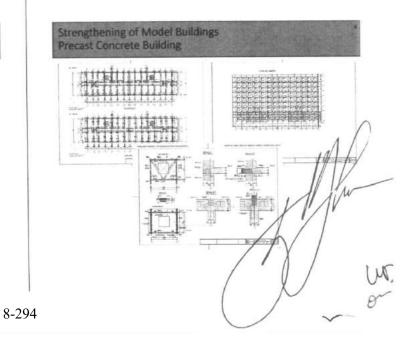




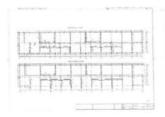
Strengthening of Model Buildings

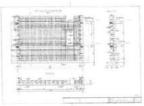






Strengthening of Model Buildings Masonry Building





Training of Seismic Strengthening

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







Introduction of activity of each organization



Training of seismic strengthening

Dissemination of Technology

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







Dissemination of Technology

	1 3	3. 21	3. 28	4. 19	5 131	5. 6.	5. 10	5 13	5.	5. 15
Seismic Evaluation	0	0	0	0		0	0	0	0	0
Seismic Strengthening			0		0					
тот						0	0	0	0	
Participants	MACE	MACE	MCUD CDC	MACE	NEMA MCUD CDC UB Other	NEMA	GASI	MCUD	UB	GASI

Issues & Future Activities

- - · Lack of human resources to disseminate the technology
 - Further improvement is needed to fit the Mongolian situation
 - Validation & Verification of the method
 - Lack of system to monitor the implementation of seismic evaluation and strengthening using guidelines developed in the Project.
- Future Activities
 - Building up the system to transfer the technology
 - · Assignment of organization in charge
 - · Collaboration with existing systems
 - · Developing human resources through TOT
 - Establishment of monitoring system on status of the implementation of seismic evaluation and strengthening using guidelines developed in the Project.

 • Amendment of format of building passport used by UBMPA

 • Proposal or amendment of checklist used by GASI and other organizations

 - · Assignment of personnel in charge of monitoring in NEMA

· Thank you for your kind attention!!









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

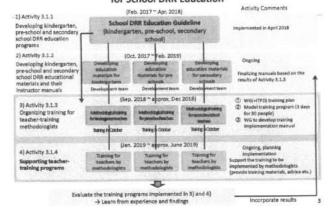
Sub-WG 3.1: School DRR Education **Progress Report**

2019.6.5

Sub-WG 3.1 Members **School DRR Education**



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



Activity 3.1.4: Supporting Teacher Training Programs for DRR Education

(Activity 1 on the Trial Schools and Kindergarten)

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

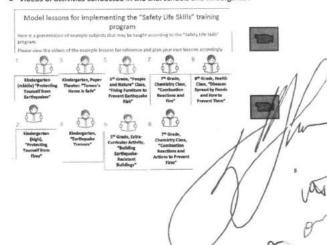
Activity 3.1.4: Supporting Teacher Training Programs for DRR Education

(Activity 2 on the Trial Schools and Kindergarten)



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

· Videos of activities conducted in the trial schools and kindergarten



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

- Finalizing the Teacher's Manual
 > 6/3~9 Expert Feedback
 > 6/10~13 Adjustments according to expert feedback
 > 6/14~ Print and distribute
- Number of Manuals

 Pre-schools 50 pages 1,000 copies

 Secondary Schools 150 pages 800 schools x 2 copies

 Structure of the Manual: Book + DVD



Outpier 2 Including DRR activities in the Curricula of Endergartens 3) Relation lie tween the Pier School Core Curriculum and the "Safety Life Sillio" Program 2) Examples of Implementing "Safety Life Salis" Program Artifalts strongly Dally School Artifalts

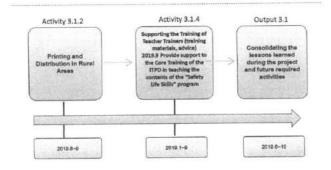
In the future, the implementation of the "Safety Life Skills" program will be tested through schools' auto-evaluation forms and student examinations on the required knowledge and skills.

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

Contents of the Teacher's Manual for Secondary Schools

Contents of the Teacher's Manual for Implementing the "Safety Life Skill" Program in Secondary Schools (Primary, Middle and High Schools) Climate Change and Our Role is Mitigating It Natural Hazards: Protecting Yourself and Others from Earthquakes Hazards / Preventing Lightning Hazards Chapter 4: Outline of Lessons (High School) Natural Hazards: Developing a Preparedness Plan for Household Risks Safety in the Social Environment: Preventing Cybercrine Chapter 1: General Understanding of Disenters Current Situation of Diseases Diseasen, Hezerds and Vulnerabilities Understanding Earthquakes Chapter 5: Contents and Methodology of Activities to Support Training Fraining - Example Planning of School Activities - Objective of Cathe-Curricular Activities - Objective of Cathe-Curricular Activities and their Methodological Reasonals - Middle School: Contents of Entry-Curricular Activities and their Methodological Reasonals - High School: Contents of Cathe Curricular Activities and their Methodological Reasonals - High School: Contents of Cathe Curricular Activities and their Methodological Reasonals Chapter 2: Outline of Leasons (Primary School) Safety in the Social Environment: Learning the Cardinal Directions Safety in the Social Environment: Climate Change Pathorial Health Comment Comment Climate Change Pathorial Health Comment Change P Terminology Bibliography Chapter 3: Outline of Lessons (Middle School) Safety at Home: Protect Your Mealth from Water Contamination Climate Hazards: "Let's Become Climate logists"

Further Plans of Sub-WG 3.1



Sub-WG 3.2 Progress of Activities

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

June 5, 2019

Sub-WG 3-2 Members

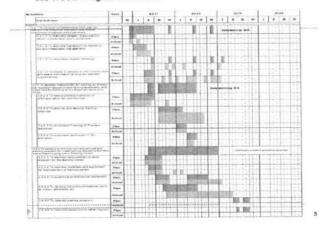


Sub-WG 3.2 Regional DRR Education

- Activity 3.2.1 Developing a comprehensive work plan for DRR education and awareness-raising; improve educational and awareness-raising efforts
- Activity 3.2.2: Developing DRR education and awareness-raising materials, and conduct training in selected regions
- Activity 3.2.3: Refining the educational program of the Disaster Protection Training and Methodology Center (DPTMC)

| 2

Sub-WG 3.2 Progress of Activities



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

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

- Nonline and classroom-based training for this system was organized for a total of 78 executives and specialists of disaster prevention departments of the 21 almags and 9 districts; as well as members of the Disaster Prevention and Awareness-Raising team.
- ➤The system had a trial run between February-April 2019 and was officially operational from May 2019. A total of 159 training activities were planned between February May 20 of 2019.
- »Google Analytics will be used to analyze and monitor the users of the system.







training information on calendar

Training in session

Google Analytics analysis dashboard

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

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

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 Uliastal and Otgon soums of Zavkhan aimag have participated.

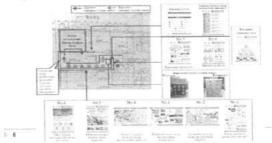




W

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

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



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

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



Further Plans

Activity 3.2.1 Developing DRR education and awareness-raising plans	Place the achedule and planning of DRR education and awareness-tailing activities on the www.ontagolaur.gov.mn website under the 4W format	Activity Completed
Activity 3.2.2 Developing DRR training and awareness-raising materials and conducting training in selected fegices		Activity Completed
Activity 3.2.3 Refine the education program of the DPTMC and develop training tools and materials	Develop earthquake information boards and ministure building models for the earthquake experience simulation from Develop materials for the children's room Submit the updated training program for the DPTMC for approval by EMDC and regularly implement it in the future.	Activity Completed Activity Completed Submitted to EMDC
Output 3 overall	Assess project activities and discuss future actions. > Promote the usage of the fraining and severeness-raising website among the Disaster Training and Awareness-Raising team, and find effective methods to inform the public of the website. > Finding affective ways to promote the DPTMC training programs and materials in rural areas, etc.	June 2019

THANK YOU FOR YOUR ATTENTION!

All vis

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

"XXX": Withdrawal from WG after the 7th JCC
"XXX": Nomination for WG after the 7th JCC
"XXX": Change of organization after 7th JCC

Wor	king Group (WG)	Sub-WG	Member
		Risk Assessment Guideline	D.Serjmyadag Disaster Research Institute, NEMA D.Bazarragchaa Disaster Risk Management Department, NEMA B.Batbayar Disaster Risk Management Department, NEMA B.Khishigbaatar Disaster Operation Department, NEMA
	Disaster Management Plan	Disaster Management Planning Guideline, Preparedness Planning Guideline and Risk Management Guideline	B.Bayanmunkh Policy Coordination and Cooperation Department, NEMA B.Myagmardorj EMDC Ch.Otgontugs Fire Department, NEMA B.Khishigbaatar Disaster Operation Department, NEMA
WG1	WG1 Coordinator: D.Bazarragchaa Disaster Risk Management Department, NEMA	Agreements	B.Duvshin Disaster Risk Management Department, NEMA T.Bilguun Policy Coordination and Cooperation Department, NEMA
	Department, NEWA	White paper	O.Tsend-Ayush Disaster Prevention Department, NEMA
	Database Guideline	Database Guideline	B.Purevnyam Disaster Operation and Early Warning Command Center NEMA D.Bayarbaatar Disaster Operation and Early Warning Command Center NEMA D.Sodnomragchaa Spatial Information and Technology Division, NEMA B.Boldkhuu Disaster Operation and Early Warning Command Center NEMA
WG2	Seismic Resistance WG2 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, Constructi 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
		Seismic Diagnosis of Infrastructures and Lifeline	L.Bilegjargal MCUD N.Ganchimeg General Agency for Specialized Inspection

1

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

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

Amendment of Objectively Verifiable Indicators for Overall Goal and Project Purpose in Project Design Matrix (PDM) <as 2019="" may="" of=""></as>	Proposed Amendment and Addition of Objectively Verifiable Indicators	[Proposed Amendment] The formulation of Disaster Protection Plans at Regional Level will be continued by referring the guidelines developed through the activity in Project.	[Proposed Amendment] The White Paper for Disaster Risk Reduction will be developed every year based on the system established through the activity in the Pro	[Proposed Amendment] The implementation of Seismic Evaluation for public facility will be continued across the country by referring the guidelines developed through the activity in the Project. [Proposed Addition] The implementation of Seismic Evaluation for infrastructures lifelines will be continued across the country by referring the guidelines developed through the activity in the Project.	[Proposed Amendment] The fostering engineers who have expertise in Seismic Strengthening of buildings will be continued based on the system established throug the activity in the Project.	[Proposed Amendment] The implementation of School Disaster Risk Reduction Education will be continued across the country by referring the guidelines developed through the activity in the Project. [Proposed Addition] The Activity of Disaster Risk Reduction Education and Raising Awareness for the public will be continued across the country under NEMA's initiative based on the system established through the activity in the Project.	46 0	[Proposed Amendment] Following systems for Earthquake Disaster Risk Reduction token root in NEMA based on the approved guidelines, rules, and provisions: • Formulation and Revision of Regional Earthquake Disaster Protection Plan • Development of White Paper for Disaster Risk Reduction • Collection and Management of Disaster Related Information • Implementation of Earthquake Risk Assessment • Promotion of Disaster Risk Reduction Education and Awareness Raising
int of Objectively Verif Project Purpose in Pro	Objectively Verifiable Indicators (PDM)	1. Number of approved guidelines, rules, and provisions	2. Number of white papers open to public	S. Number of the executed seismic assessments	4. Number of the seismic strengthened buildings	5. Number of implemented activities on disaster risk reduction education	· 1. The number of the approved guidelines and agreements	 2. The amount of data on disaster risk reduction which is newly established and improved
Amendme	Narrative Summary (PDM)	Seismic risk will be reduced.					The Capacity of the National Emergency Management Agency Will be enhanced through the activities for strengthening the countermeasures for seismic risk.	
	Narı	Overall					Project Purpose	1

<As of May 2019>

Progress toward the achievement of Project Outputs

	Buch Land & Addition of the Control	Expected outcomes developed through the Project activity Blue: Ongoing in the WG Activity, Red: Completed by WG Activity	gh the Project activity Completed by WG Activity	Progress toward the achievement of Project Outputs (PDM)
Project Output	rioject venuty	Products (Documents/tools)	Human and Organizational Development	Progress [As of May 2019]
1. Capacity for data collection on disaster risk reduction and coordination among related organizations will be enhanced.	1.1 To improve frameworks for disaster risk reduction by reflecting the Amended Law on Disaster Protection	10 M	Improvement of rules and provisions by reflecting the Amended Law on Disaster Protection . Capacity enhancement of NEMA, EMDC and regional EMDs through the pilot activity based on GLs	The number of guidelines, operational rules, and provisions which are developed. 3 (approved), 9 (planned to be developed) Provided, remaining 6 documents have already been drafted.
	1.2 To strengthen cooperation among related organizations for disaster risk reduction	Agreements on cooperation among governmental agencies and related organizations for DRR actions (9 agreements planned to developed) Agreements on spatial database exchange among the DRR related organizations (2 agreements planned to developed)	Capacity enhancement for conclusion of agreements and accumulation of know-how on this work Enhancement of cooperation among governmental agencies and related organizations	The number of the draft of agreements developed a lipaproved / 11 planned to be developed 4 agreements have aready been signed officially. The number of participants who participated in the training programs on agreements:
	1.3 To improve monitoring and information gathering methods for national and local disaster protection plans	Earthquake Disaster Protection Plans in pilot almags and Districts (2 almags and 2 Districts in UB city) White Paper for DRR in 2017, 2018 Spatial Information System for Disaster Risk Reduction including Disaster Spatial Database	Pilot Activity for local earthquake disaster protection planning in the pilot area Training program on operation and management of spatial information system for DRR intended for NEMA, EMIDC and regional EMDs	White Paper for Disaster Risk Reduction Liapproved) / 2 [planned to be developed]
2. Capacity of public administration officer related with the seismic strengthening for buildings will be buildings will be enhanced.	2.1 To establish seismic assessment methods for buildings, infrastructures and lifelines in the country, and to implement training program on seismic assessment	GLs on Seismic Evaluation of Buildings (3 GLs : RC, PC and Masony) GL on Seismic Evaluation on infrastructures and lifelines Manual to Support Training Program implementation	Training program on seismic evaluation on buildings, infrastructures and lifelines Training of trainers on fostering engineers who have expertise in Seismic Evaluation of buildings	Guideline for seismic assessment 4 flapproved], 4 johnned to be developed] The number of the participants in the training program on seismic assessment 180 trainees [Jun. 4-2, 2018] 4-1 trainees [Jun. 4-2, 2018] 6-4 Trainees [Mov. 12-13, 2018] 6-4 Trainees [Mov. 12-13, 2018] 31 trainees [Mov. 28, 2019]; Explanation of GLS 21 trainees [May. 6-31, 2019]; Training of trainers
	2.2 To develop seismic strengthening guidelines for buildings in the country, and to implement training program on seismic strengthening	GLs on Seismic Strengthening of Buildings (3 GLs : RC, PC and Masonry) Trial Designs of Rebuilding and Strengthening Construction (1 Sinds of buildings) Manual to Support Training Program Implementation	Training program on seismic strengthening on buildings Training of trainers on fostering engineers who have expertise in Seismic Strengthening of buildings	Guideline for seismic strengthening Siapproved) / 3 [planned to be developed] The number of training programs on seismic strengthening: 65.\(\text{(May. 1-3, 2019)}\)
3. Implementation plan on disaster risk reduction education and awareness raising activities will be developed and		GL titled "The Program for Life Safety Education" Guidebook for teachers to implement lessons based on the GL. The Program of Life Safety Education	Training program for the instructors of Teacher Training institutes and experts of educational departments in local governments (Kindergarten, Primary school, Lower-secondary school) Training program for teachers by the instructors and experts who received the training program (Kindergarten, Primary school, Lower-secondary school)	The number of the cases of delivering classes on disaster risk reduction based on the activities of the Project Classes on DNR education will be delivered from Sep. 2019
f Mi	3.2 To develop materials for disaster risk reduction education and raising awareness, and to implement training program for target groups and residents	DRR Training Materials for the Community Disaster Prevention and Simulation Program with related Materials in the Disaster Protection Training and Methodology Center Webpage for sharing the DRR training schedule	Training for trainers on DRR Experience Program Program Awareness raising Enhancement of cooperation among related organizations	The number of visitors in the Training Centers Total 5.800 (2.200 students and 3.600 citizens visitors from 2.3 Mar. to 2.7 May 2019

Annex 7: Question and Answer in the JCC meeting

Record of Question and Answer in the 8th JCC Meeting

1. Amendment of Working Group Member

Moderator, NEMA:

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

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

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

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

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

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

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

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

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

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

8-304

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

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

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

Moderator, NEMA:

Any question on the modifications in the PDM indicators?

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

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

Ms. D. Jargal, GASI:

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

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

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

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

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

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

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

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

Moderator, NEMA:

Thank you Ms. Jargal. Any comments?

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

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

Mr. Ts. Ganzorig, Deputy Head of NEMA:

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

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

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

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

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

Moderator, NEMA:

Do you have any comments from project side?

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

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

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

Mr. Ts. Ganzorig, Deputy Head of NEMA:

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

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

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

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

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

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

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

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

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

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

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

4. Preparation of Project Completion Report

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

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

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

5. Others

Ms. Inamori.Makiko, JICA Mongolia Office:

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

Mr. Ts. Ganzorig, Deputy Head of NEMA:

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

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

6. Closing Remarks

Moderator, NEMA:

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

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

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

The next JCC meeting in November 2019 was decided.

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

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

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

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

---000----

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.

Ms. Eriko Tamura

Chief Representative

Mongolia Office

Japan International Cooperation Agency

Mr. Kiyotaka Owada

Team Leader

JICA Expert Team

Mr. Badral Tuvshin

Chief, Major General

National Emergency Management Agency,

Ulaanbaatar, November 5, 2019

Mongolia

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.

 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

as w

2 |

45

- 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.

- 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.
- 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

4

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		Mur
S.Magnaisuren	State Secretary, Ministry of Construction and Urban Development		
D.Batsaikhan	Director, Disaster Prevention Department, NEMA		Just
da. Baasaubat Ye.Jargalsaikhan	Referent of National Security Council	88059855	Shift
L.Ulziibayar	Director, Policy Coordination and Cooperation Department, NEMA		,
D.Jargal	Director, Infrastructure and State Inspection Department, General State Inspection Agency	99176069.	June .
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		such
P.Bayarkhuu	Vice Mayor of the Capital City in charge of Urban Development		,
N.Ulambayar	Director, Emergency Management Department of the Capital City (EMDC)		1
G.Enkhtuya	Director, Construction Quality and Safety Division, Master Planning Agency of Capital City	99016177	Min
Eriko Tamura	Chief Representative, JICA Mongolia office	tamura.eriko@jica.g	osp 19213
Makiko Inamori	Project Formulation Advisor, JICA Mongolia Office		指森
Ch.Munkhmanlai	Program Officer, JICA Mongolia office	es chivbat munkh manlai. Ma (0 jica .go	Waloo
Hideaki Matsumoto	Director, Disaster Risk Reduction Team2, Disaster Risk Reduction Group, Global Environment Department, JICA	Matsumoto Hideahie Jicago.jp	Fr 1
akafumi Sakurazawa	Disaster Risk Reduction Team2, Disaster Risk Reduction Group, Global Environment Department, JICA	Sakurazura, Tokatumi Diringa	中櫻澤

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
Russkin	NEMH	99173133	Jell
B Du/amsacen	NEMA	99007965	Defiamengo
P. tsend	Nema	86150069	B. May
D. Bayarbator	NEM9	94766999	Shal
9 Sodnomrogehow	NEMA. EWOC, SITOIN	113in 98888148	& Sofrage
Baganmunet.B	NEMA,	99087557	my
Vanchindor B	NEMA	9 9080474	- Ran la
KHUREI BAREA	NEMA	88019559	Jim
Bat-endene. D	NEMA	89142333 eegjid333dyenoo	Xx401
D.Bazarrug- Chaa	NEMA	99194257	Stage
O. Bayar bactor	MCUD	99900532	The
D. Odbnyar	7 E T	88477748	J. Ogbage
N. A mapi app	A JET	99277766	Lupac
E. Enkh-Erdine		96956059	Tild
T. Bolorma	8	99736052	Mary

45

8-315

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
Mik: Kodama	JICA Expert Team	cheznitrooj@gmit.ca	(里五美程)
seichiro Fubushimo	JICA Expert Team	fulashima erkt-ccjp	神鬼部 一部
Dsamu NISHII	JET	nishija oyointer.a	如何中理
Y. Erdenepat	JET	erdene 7@ msn.com	A. De
D. Myrun	757	lindaajp2000 @yahoo.co.jp	Duopon
ANKBILEG-T.	JET	AIVENDILEY ON DYNA	MAngund
K. Curada	JET		3
_	111		l =

8-316





"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

No.	Time	Agenda	Presenter	
	9:50-10:00	Registration		
1	10:00-10:10 (10 min)	Opening Remarks from NEMA	Mr. Badral Tuvshin Chief, Major general, NEMA	
2	10:10-10:20 (10 min)	Opening Remarks from JICA	Mr. Hideaki Matumoto Director, Disaster Risk Reduction Team2 Disaster Risk Reduction Group, Global Environment Department, JICA	
3	10:20-10:30 (10 min)	Overall Result of the Project	Mr. Kiyotaka Owada Team Leader, JICA Expert Team	
4	10:30-10:50 (20 min)	Result of WG1 Activity	Representative for WG1	
5	10:50-11:05 (15 min)	Result of WG2 Activity	Representative for WG2	
6	11:05-11:20 (15min)	Result of WG3 Activity	Representative for WG3	
7	11:20-12:00 (40 min)	Discussion and Confirmation on: (1) Amendment of the List of Working Group Members (2) Confirmation of the Project Completion Report (3) Confirmation of Action Plan for Addressing the Achievement of Overall Goals of the Project ▶ 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 (4) Others	Discussion with All Participants Item (2): Mr. Kiyotaka Owada, Tean Leader, JICA Expert Team, explains results of Join Review in the Project Completion Report. 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.	
8	12:00-12:10 (10 min)	- Closing Remarks	Mr. D.Batsaikhan Director of Disaster Prevention Department, NEMA	

8-317

45

Annex 3: Working Group Members' List

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

Wo	rking Group (WG)	Sub-WG	Member
		Risk Assessment Guideline	D.Serjmyadag Disaster Research Institute, NEMA D.Bazarragchaa Disaster Risk Management Department, NEMA B.Khishigbaatar Disaster Operation Department, NEMA
	Disaster	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
WG1	Management Plan WG1 Coordinator: D.Bazarragchaa Disaster Risk	Agreements	B.Duvshin Disaster Risk Management Department, NEMA T.Bilguun Policy Coordination and Cooperation Department, NEMA
	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 Spatial Information and Technology Division, NEMA B.Boldkhuu Disaster Operation and Early Warning Command Center NEMA
WG	Seismic Resistance	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
WG2	WG2 Coordinators: B.Gantulga 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

1

Wo	rking 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 WG3 Coordinator: 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
	Dopardient, NEATT	Community DRR Education	D.Bat-Erdene Disaster Prevention Department, NEMA D.Khadbaatar Disaster Prevention Department, NEMA B.Uuriingegee EMDC D.Munkhbat EMDC

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	The Law of Disaster Protection	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.	High
Effectiveness	Achievement of the Project Purpose's	Project Purpose's indicators have been generally achieved in the Project. Each Output's indicators have been generally achieved in the Project.	High
Efficiency	Project cost Project duration	 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	the Overall Goal	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 goverment 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	Key Point/s of	Condition of each Key Point	Result of
Criteria	Evaluation		Evaluation
Sustainability	Political and Institutional Sustainability Organizational Sustainability Technical Sustainability Financial Sustainability Sustainability	 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

Before Project Initiation

 Faults were discovered near UB < Project Rationale >

Project Activities

imperceptible seismic waves are Amount of perceptible and increasing

UB population density is increasing at a

To improve frameworks for DRR by reflecting the Amended Law on Disaster Protection

socialist era (increasing vulnerability) resistance buildings built during the Large number of old, low-seismic rapid pace (excessive growth)

Global DRR trends contained within the Sendai Framework

7

Law on Disaster Protection (2017.2) Change in the local conception of earthquake hazards

Output -

To strengthen cooperation among related organizations for DRR

1.2

Law which emphasizes prevention.



and information gathering nethods for national and

1.3

To improve monitoring

To establish seismic assessment methods for

country and UB, and to

2.1

and lifelines for the

Pre-Project Situation

The previous law was mainly focused on emergency measures during disasters, and contained few clauses related to Government organizations and other guidelines on collecting and utilizing information for strengthening DRR activities and administration.

disaster protection activities separately earthquake preparedness was lacking. and there was a lack of coherence between the activities. Moreover, understanding and awareness of related organizations conducted

country and UB, and to

2.2

Output ~

program on selsmi

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

Developing the Safety Life

nationwide reach of MEMA and NGOs have conducted DRR training in selected regions, however the continuity add mationwide reach of such educational activity insufficient.

~

Project Activities (Progress) and Expected Results

After Project Completion

<Overall Goal > Seismic risk will be

Achieved Results (As of October 2019) Human Resources/Organizations Activities (As of October 2019)

< Project Goal > The capacity of the

strengthening the countermeasures for seismic National Emergency Management Agency will be enhanced through the activities for

Output 1: 11/16 Output 2: 7/7 Output 3: 2/7

Approved programs, GLs and agreements

Results (As of October 2019)

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 central and regional organizations will be able to the necessary data necessary for earthquake risk develop the DRR plan used for budgeting funds targets of the Sendai Framework. Moreover, assessment and the evaluation of the global dedicated to DRR activities.

GASI and the UB Mayor's Office will be enhanced The cooperation framework for relevant parties within activities related to seismic diagnosis of coordination between NEMA, MCUD, MECSS, in each step of the disaster cycle will be developed through agreements. The buildings and DRR education.

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

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

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

Started in the 2nd period of the

Training for teachers (pre-school, primary and secondary)

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

16,820: Visitors to the earthquake experience simulation room

Strengthen the cooperation of Train regional teacher-trainers

Training program + materials for the DPTMC

Manual + materials for teacher-

Website for the comprehensive planning of DRR training and awareness-raising activities

24,737 (March - September 2019)

Number of visitors to the DPTMC:

Implement measures related to DRR

training and awareness-raising for

Number of developed GLs to be implemented: 8/8 DRR-related training conducted within the framework of the Of which 2 have been approved **Building reinforcement GLs:** 107 (including training for eacher-trainers) · Seismic diagnosis GLs: 4/4 491 [including training for teacher-trainers] (2018 White Paper is being prepared for printing) · Training Participants : Number of agreements seveloped: 11/11 Training Participants: · DRR White Paper: 1/2 Of which 9 are approver iraining Participants: 38 Training on the seismic reinforcement and related designs for buildings The relevant GLs and regulations will be improved according to the Amended Law on Disaster Protection Strangthen the capacity of activities in selected regions, as well as DRR units in central and regional areas according to the GLS Training on the seismic diagnosis on buildings and risk assessment of infrastructure and lifelines nationwide (pre-school, primary and Issue local disaster protection plans for selected almags and districts Training on utilizing SISDRR jointly organized by central and regional organizations Tasks to be Developed and Implemented through Project Training for teacher-trainers Training of teacher-trainers Training of teacher-trainers GL on the Seismic Reinforcement of · Safety Life Skills education program Developing seismic reinforcement designs for buildings Seismic Diagnosis GL for Buildings (masonry, PC, RC) • Earthquake Risk Assessment GL • Earthquake Disaster Protection Planning GL (3 types for National; State Services; and Capital City, Disaster protection plans of test aimags and districts (2 aimags, 2 Teacher's manual and teaching materials of the Safety Life Skills "DRR White Paper - 2017", 2018 greements
Manual for Developing the DRR GL on Operation and Managem Documents/ Materials SISDRR agreements (2 types) Manual for Developing DRR Buildings (masonry, PC, RC) Seismic Diagnosis GLs for Infrastructure and Lifelines Districts, Aimags and Soums)
GL for SISDRR Disaster Protection Planni DRR agreements (9 types) Training manuals

> 7 Output m

Develop DRR training

onduct training for

3.1

tools and materials, and implement training for citizens in test regions

45

Progress and Results of WG1 Activities

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



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

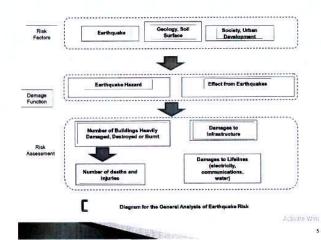
Four. Methodology for General Earthquake Risk Assessment Determining Earthquake Risk

Analyzing Earthquake Risk

Evaluating Earthquake Risk

Five. Preparing the Report
Six. Incorporating the Results of the Risk Assessment in Disaster
Protection Planning
Protection Planning Potential Earthquake Disaster Risk Using

Microsoft Excel



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,

> Utilization on the Disaster Risk Assessment GL

Training of specialists on the GL and methodology - EXCEL program

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 Decuty

Damage estimates in aimags Umnugovi and were calculated using it

of risk management

or

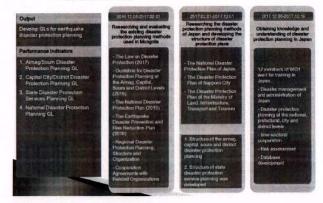
Sub-WG 1-1: Earthquake Disaster Risk Evaluation Guideline

> Further Actions

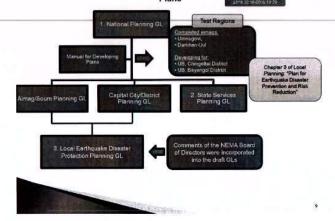
Provide administrative guidance to the regional DRR committees and the Standing Committee on Earthquake Disaster Prevention for conducting earthquake disaster risk assessments between 2020-2025 in aimag centers where high-resolution regional maps were developed by the Space and Geophysics Institute according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

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

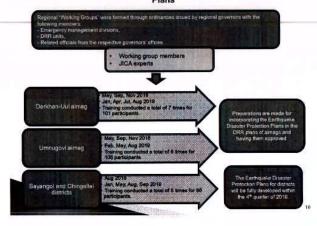
Progress of Activities



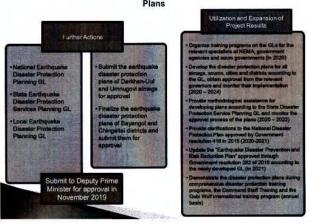
Sub-WG 1-2: Guideline for Developing Earthquake Disaster Protection Plans



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



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



Sector	Contents	Organizations	Явц
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 or 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 by WMA WMA responded that hey a sign the agreement and delive it back to NEIMA.
Road and transport	Providing road and transport means necessary for organizing search and reacue, damage mitigation, and immediate restoration activities without delay in regions struck by disaster	NEMA-MRTD	Agreement established of October 29/2019.

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.
Communic atlons	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.

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

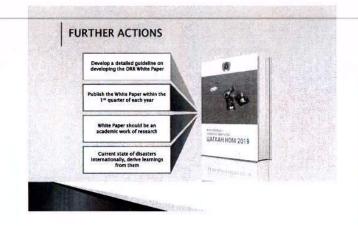
Chapter 6 - DRR Budget and Funding: National budget funding Foreign funding

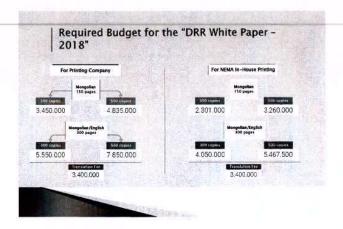
Chapter 7 - DRR Research, Analysis and

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







Spatial information system for disaster risk reduction (SISDRR)

Introduction of development

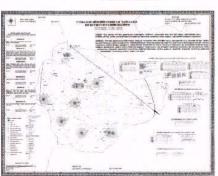
Speaker: D.Sodnomragchaa, Lieutenant colonel

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 recommissing location).

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

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



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

Development -> initialization ->

✓ Sub working group meeting organized 15 times for preparation of database guideline ✓ 150 steffs are participated from central NEMA and regional EMD in 3 times technical trainings

1

"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

◆ Database Guideline:

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.



Development of Guideline and

2.Capacity development of human resource

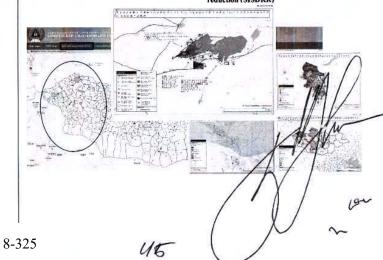
JET and "Spatial information technology division" under the early warning center was jointly
organized series of capacity enhancement technical training based on latest improvement of
spatial information system for disaster risk reduction (SISDRR) and number of total
participants are more than 150 staffs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



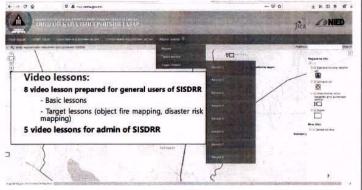




Spatial information system for disaster risk reduction (SISDRR)



2.3 Capacity development of human resource



3. System and database development

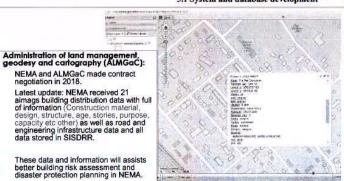
· Municipality of Ulaanbaatar: Urban planning and

- 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



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.



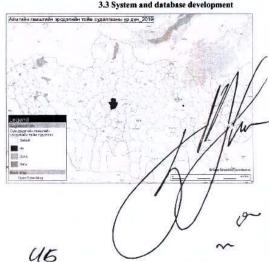
Utilization matrix on spatial information for disaster management

Disaster category	Disaster type	Name	Rednes hazard	Response	Reconstruction	Preparedness
		Streg windstallers	Lost cong	hefraction for passenger page Force deplates map	May of reconstruction process Softwaren Lost successed may force beard processed may	Descript and Resear Procedure Seasons
		Henry mov bill				
		Illepton appara	Control of the Contro		1	Identifying and parietary halo
	Mornlegen) busch	Through	Sherifying will make terr index Drought selon Plant todax Hisk map : Volkershiller, map	blendring self recirem index Designit selfe Flori index Designit selfe	a format	Desight index Plant index Plant index Risk cosp Velocatel by map Risk cosp
		Thurder			10.000	77.7.
elaral dissetur		Park	though may Thou maching Hood may Hait may Hait may Height of water laths	Hand sep Phot abutes sep	Flood map Flood structure map Map of reconstructure process	Hauré map Flood descrion Flood etaction map Procipitation forman
		form and with his	Fine thic map	Denotion on may Denotion of fire quantum Montacing may	Dutted area may him of forest had	Per fek may
	Declayard baseds	Terbouks	A heartfood from directional antendar way Defectation of stants Lither felt map	Flund assessed rap	Hazari manamat rap Map of rememberian membering	
		Landshife	Lordelph survivous rap Montaring rap	Landido annoques may	Landston management	Land like an executed may Procipitation Streets
	Tild agent herech	Status States	Eink effectives division Cynonogalaries (EC 100)			Birk of infections discuss

♦Disaster risk

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

3.3 System and database development



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.

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.

13



All or



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

Achieved Value

program) total 491 (actual, incl. ToT)

Guideline for seismic strengthening 3(approved) / 3 (planned) The number of training programs on seismic strengthening total 65 (at planned progra total 107 (actual, incl. ToT)

Guideline for seismic Guideline for seismic assessment 4 (approved) / 4 (planned) The number of the participants in the training program on seismic assessment

- GLs on Seismic Strengthenin of Buildings (3 GLs: RC, PC and Masonry) Trial Designs of Rebuilding and Strengthening Construction (5 kinds of

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

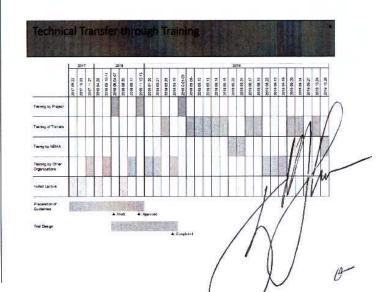






rial Retrofitting Desig aatar District One of few RC hospital buildings PC





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	Learn the method of seismic evaluation of infra- and lifeline structures	70



Exercise of seismic evaluation for buildings using Excel spread



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 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

- - 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)



CDC



Capacity Building through Self-reliance and S

- · 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







- 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)

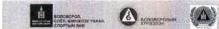


Utilization of Project Output

- 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 retrofitting, 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!!

Mon In









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

9th Joint Coordinating Committee (JCC) Meeting

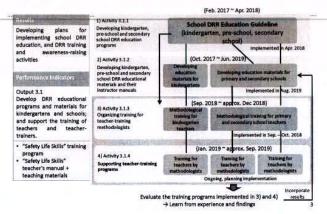
Sub-WG 3.1: School DRR Education **Progress Report**

2019,11.5

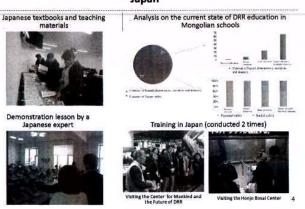
Sub-WG 3.1 Members **School DRR Education**



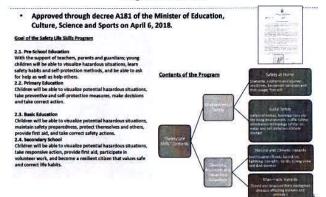
Output 3-1: Overall Activities for School DRR Education



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



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



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,

5th Grade Lesson 45 min	5 th Grade Lesson 45 min	Upper Kindergarten Lesson 30 min
One Day Refore* Project 1. History of earthquakes in Mongolia (sidea) 2. Why do earthquakes occur? (sidea) 3. What deamages are caused by earthquakes? (sidea) 4. Team discussion and presentation on the subject. "An earthquake will happen tomorrow. What will you do?" 5. Conclusion: Learn about preparadness and responsible action in	What will happen during an earthquake? (slides) Build an earthquake-resistant building with a milk carton	What will happen if an earthquake occurs now? Find dangerous spots in the classroom About the three dangers:
		6
	45	I or

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)



the Marcal and Points to Consider When Using the Mar General Understanding of Disasters









accompanying DVD

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)









Safety Life Skills Program 2. Example of a Methodo

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
- Workshop: Practice-based Teaching Method, Developing DRR Education Plans and eloping Teacher-Training Programs.

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.

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 almags, 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)

















iewed 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

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













10

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

Objective	Conducting model lessons on this pre-schools, kindergartans 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 Songhosthairkhan and Bayangol districts; and officials of the emergency management divisions of the districts.					
Period	March 15-19, 2019					
Place	Kindergarten No. 244 and School No. 13 (primary school) School No. 42 (middle school)					
Main Activities		Kindergarten No. 244	School No. 13	School No. 42		
	(1) Training for all school and kindergarten teachers	3/5 10:00~13:00	3/7 10:10~13:10	3/6 9:30~12:30		
	(2) Workshop 1 for implementing the "Safety Life Skills" training program	3/11 10:00~13:00	3/12 10:15~13:10	3/11 14:00~17:00		
	(3) Workshop 2	3/13 14:00~17:00	3/14 14:10~16:30	3/13 10:00~13:00		
	(4) Open class	3/15 9:30~10:30 (evaluation and discussion)	3/19 10:15~11:40 (evaluation and discussion)	3/18 12:20~14:00 (evaluation and discussion)		

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

	Kindergarten No. 244	School No. 13	School No. 42
Training for All Teachers			
Workshap	A CONTRACTOR OF THE PARTY OF TH		
Open Class			

Achievement of Project Results and Performance Indicators (Output 3.1)

Expected Result	Performa	nce Indicator	Achieved Result
Output 3: Develop the plan for implementing DRR education and awareness raising activities	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	"Safety Life Skills" Program Teacher's manual + educational materials for the "Safety Life Skills" program	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 MECCS The menual will be used in lessons starting from the 2ºperiod of the 2018 school year. Furthermore, a joint-decree or "Supporting the Implementator of the Safety Life Skill Program by the Minister of Education Culture, Science and Sports and the Deputy Prime Minister is being prepared.

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
 - incorporate the contents of the "Safety Life Skills" program in the 3rd grade graduation test conducted by the Education Assessment Center in secondary schools.
 - 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.

16

45

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

WG 3-2 Regional DRR Education

Developing the plan for implementing DRR education, training and awareness-raising activities.

Output 3.2:

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

Sub-WG 3-2 Members

The DRR Training and Awareness-Raising Team

DRR education and awareness-raising (1)

- > The DRR Training and Awareness-Raising Team led by the Disaster Prevention Department of NEMA and supported by World Vision Mongolia 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 governmen 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-

>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.









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.











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

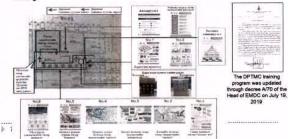


- The manual for the relay race containing information on the activities and issues to pay attention to for each relay point was developed and distributed to the relevant organizations in aimags and districts.
- in aimags and districts.

 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
- > 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 in 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
- > Supervision is being conducted based on the number of participants in the DPTMC



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.







8 Earthquake DRR table theater for

kindergarten class

Wood-framed table theater delivered to DPTMC

Achievement of Project Results and Performance Indicators (Output 3.2)

maicators (output o.z.)						
Expected Result	Performanc	e 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 (9,04 students, 15,696 others) (Earthquake experience simulation room, 16,820) (From March 2019 t September 17, 2015			

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!

45

b 11