



ASEAN Cooperation Project Proposal

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1. PROJECT DETAILS

Proposal Identification Code:

SCD/DIS/19/020/REG

Project Title: D-CAB Project for AMS

Disaster risk management Capacity Building Project for AMS

Brief Project Description – 300 words max:

Over the last decade, disaster incidents in Southeast Asian countries have been increasing due to rising vulnerability to multiple hazards and disaster risks. The increased vulnerability to climate change and associated local hazards in most ASEAN countries has often eroded economic gains and could be alleviated with comprehensive disaster governance. Disaster governance includes a range of economic, physical, historical, cultural and social dimensions to identify and manage “the root causes of disaster”.

The project aims to strengthen disaster governance system and adaptive capacity in ASEAN countries by exploring and coping with the challenges faced by each country, factors of vulnerability, and local disaster and hazard risks.

The program is in line with the ASEAN Agreement on Disaster Management and Emergency Response (AADMER). The AADMER has been effectively facilitating regional cooperation between and among ASEAN Member States (AMS) that seek to build a resilient ASEAN Community to reduce disaster losses and collectively respond to disasters. In addition, the project also works towards realizing the ASEAN Socio Cultural Community by 2025. The ASEAN Socio Cultural Community by 2025 states a resilient community with enhanced capacity and capability to adapt and respond to social and economic vulnerabilities, disasters, climate change as well as emerging threats and challenges.

Capacity Development on integrated disaster management is a key priority for National Disaster Management Office (NDMO) to enhance disaster risk reduction, governance knowledge on response and resilience, and multi-agency coordination skills of the senior, middle and entry level government officials. Building the capabilities of officials who represent the three levels working for the ASEAN member state governments is essential to strengthen local disaster risk governance for sustainable development.

In accordance with AADMER and ASEAN Socio Cultural Community, the project will offer a disaster management training course for AMS NDMOs on emerging technologies for effective planning and decision support. It will provide the training course to 320 officials from 10 countries, conduct integrated disaster management training for each type of disasters, and carry out the Training of Trainers (TOT) program by using Virtual Reality (VR) as an education tool for strengthening disaster risk governance.

The main objectives of the project are to:

- i. Build capacity of local and central government officials of the ASEAN countries
- ii. Improve disaster risk governance of ASEAN member states
- iii. Facilitate the exchange of disaster risk management knowledge
- iv. Promote AMS NDMOs to lead collaborative disaster risk information using advanced technology such as VR

Recurring Project: Yes No

If Yes, Previous Project Identification Code:

Project Classification:

Scope: Single Sector Cross-Sector

Pillar: ASCC

(Main) Blueprint: ASEAN
Socio-Cultural Community
Blueprint

(Main) Characteristic: A.1.
Engaged Stakeholders in
ASEAN processes; A.2.
Empowered People and
Strengthened Institutions; D.1.
A Disaster Resilient ASEAN
that is able to Anticipate,
Respond, Cope, Adapt, and
Build Back Better, Smarter,
and Faster

Action Line(s):
Action(s):

Connectivity

IAI

Linkage:

Strategy:

Key Action(s):

Information below to be completed by the ASEAN Secretariat:

Nature of Confidence Building

Cooperation: Harmonisation

Special Assistance

Joint Effort

Regional Integration / Expansion

Type of Policy Initiative

Intervention: Establishment of Institutional Mechanisms

Human Capacity Building

Project Duration: < 6 months 6-12 months > 12 months

Proposed Commencement Date: March 2020

Proposed Completion Date: By July 2023

Project is considered to have "commenced" as of the date the Implementing Agency/Proponent is informed of the approval and upon receipt of the first disbursement, whichever is later.

Project is considered "completed" when the Project Completion report and unspent balance, if any, is received and verified by the ASEAN Secretariat. The proponent is required to submit the project completion report, which comprise of narrative and financial report, within 60 days after the project is fully implemented.

The report templates are available at <http://asean.org/resource/asean-project-templates/>

Participating ASEAN Member States: All

If not all (or not all in the same way), please indicate reason:

Sponsoring ASEAN Body

Sectoral Committee/Main Body: ASEAN Committee on Disaster Management (ACDM)
Meeting Number/Date: Ad referendum/ 22.01.2020

Working Group/Sub-Committee: Working Group on Prevention and Mitigation (WG P&M)
Meeting Number/Date: 11th Meeting of WG P&M / 20.09.2019

Proponent's Name and Address:

National Civil Defense and Disaster Management Training Institute(NDTI)
 Address: 90 Yeonsudanji-gil, Sagok-meon, Gongju-si, Chungchengnam-do 32522, ROK
 Phone: +82-41-840-6421, Fax: +82-41-840-6410
 Contact Person: Misook KIM, Team Director
 Email: simulpro@korea.kr

Implementing Agency's Name and Address (if different from above):

1. National Civil Defense and Disaster Management Training Institute(NDTI)
 Address: 90 Yeonsudanji-gil, Sagok-meon, Gongju-si, Chungchengnam-do 32522, ROK
 Phone: +82-41-840-6421, Fax: +82-41-840-6410
 Contact Person: Misook KIM, Team Director
 Email: simulpro@korea.kr
2. Indonesia National Disaster Management Authority (BNPB) Education and Training Centre
 Address: Jl. Anyar No.12, RT.2/RW.1, Leuwikutug, Citeureup, Bogor, Jawa Barat 6810, Indonesia
 Contact Person: Dr. Ir. Agus Wibowo, MSc. Director for Education and Training Centre
 Phone: +62-021-29618775, Mobile: +62-881-800-241
 Email: agus.wibowo@bnpb.go.id / Wibowo.agus@gmail.com

Date of Proposal Submission:**Proposed Funding Source(s):**

ASEAN-ROK Cooperation Fund

Proposed Project Budget (total in USD):4,744,045

Information below to be completed by the PCPMD of the ASEAN Secretariat

Recommendation of the ASEAN Secretariat

Meeting No./Date : Ad-referendum/ 18.09.2019
 Action : Endorsed Not Endorsed

Approval of Committee of Permanent Representatives to ASEAN (CPR)

Meeting No./Date : Ad-referendum/ 21.02.2020
 Action : Endorsed Not Endorsed

2. PROJECT JUSTIFICATION, REGIONALITY AND BENEFICIARIES – 600 words max
(a) Current Problem

Most of the ASEAN Member States (AMS) are located in geographic areas which are at high risk of natural disasters. Over 608 million people who reside in the Southeast Asian region constantly face floods, tropical cyclones, forest fires, and the occasional tsunami. This region is one of the most disaster-prone areas in the world and the disaster incidents induced by extreme climate are projected to increase in both frequency and intensity due to the climate change and its variation (APPC,2017). On the other hand, limited continuous hazards and risks-based training and knowledge exchange activities for various levels of government officials weaken overall disaster risk and response governance in the ASEAN region. Ultimately, the resilience of the communities and peoples of ASEAN need to be strengthened against current and future disaster risks.

The AMS recognizes that the increasing severity and impact of climatic disasters such as floods, storm, and landslides induced by high intensity rain pose serious challenges to the resilience of the people and community. Regular occurrence of climatic disaster incidents reverses social and economic progress; and creates cascading impacts to local infrastructures and development in the ASEAN region.

In 2008, Myanmar suffered the second most expensive disaster globally with its overall economic losses estimated at 4 billion USD and 140,000 fatalities (APPC,2017; NatCatSERVICE, Munich Re,2017). Similarly, flooding incidents and landslides caused by extreme rainfall in a short period of time occurred in Thailand in 2011 with economic losses over 43 billion USD and 813 fatalities (APPC,2017; NatCatSERVICE, Munich Re,2017). Since 2011, major localized floods, storm and mudslides induced by high intensity rain have been recorded in Philippines, Vietnam, Cambodia, and Malaysia. Some of them struck on transboundary areas (e.g. Thailand–Malaysia flooding and landslides in Golok River Basin in 2009, 2010, and 2017), which required multi-agency collaboration involving government agencies of more than one country.

All of AMS and the NDTI take cognizance of the increasing exposure of ASEAN's people and communities to the various natural hazards and vulnerability. This circumstance and demand call for the necessity of disaster management training at all levels (local to national) which is essential and indispensable in risk reduction and response preparedness. Virtual disaster management training using simulator makes it possible to conduct training at all levels while stakeholders have better access to information and more adaptive towards quick response in disaster situation. It provides the high-fidelity simulation of the incident situation in a virtual world where dynamic decision making and response is required. The realistic virtual environments allow users to be immersed within the unscripted and open-ended scenarios, eliciting real life emotions and field-like responses. It is an effective tool for planning, rehearsing, assessing and enhancing the skills of any individual, team, or organization with a role in incident and disaster management or response.

The action taken today will be the reality of future situations. Therefore, It is necessary to train the national and regional NDMOs & institutions for the capacity building in order to strengthen disaster risk governance including climate risks.

(b) Regionality

Through collaborative participatory learning and joint mobile VR training, this project also intends to strengthen and enhance the regional mechanisms for joint disaster risk reduction and response at the region. It endeavors and broadens linkages between AMS, as well as ASEAN bodies. The project seeks to enhance cooperation among AMS on disaster response simultaneously while responding to different disaster faced by each state.

Building on capacity and knowledge on localized disaster management through the training, ASEAN NDMO will have opportunities to share local disaster management knowledge among communities and to wider global communities. .

(c) Project History

Over the decade, the National Civil Defense and Disaster Management Training Institute (NDTI), Ministry of Interior and Safety (MOIS), the Republic of Korea has been instrumental in organising multiple trainings and shared best practices to strengthen disaster risk management / governance for Korean and foreign governments as well as non governmental organizations. The main vision of NDTI is to enhance disaster risk governance at home and abroad through interactive residential learning.

To this end, NDTI offers wide range of training and education courses at national and international levels, conducts participatory disaster management policy reviews, promotes disaster risk reduction based knowledge co-creation and facilitates to implement disaster risk, response and resilience planning activities highlighted in international and regional roadmaps (i.e. Sendai Framework for Disaster Risk Reduction SFDRR 2015-2030, ASEAN Vision 2025 on Disaster Management and Disaster Management Research Road Map for the Asian Region).

Since 2006, NDTI has held a total of 42 courses of international training program, targeting 643 government officials from 61 developing countries including the majority of AMS. AMS which have participated in NDTI training program as of today are: Indonesia (41 participants), Vietnam (42

participants), Philippines (37 participants), Myanmar (33 participants), Laos (5 participants), Cambodia (15 participants), and Thailand (1 participant)

Few of past and ongoing international trainings are:

1. Joint Training with International Organizations
 2. Capacity Development with the Funding via KOICA
 3. Korean Experts Dispatch in multiple occasions
 4. Korea-Japan Joint Workshop (various)
 5. Climate Change and Disaster Prevention
 6. Latin America Workshop Series
 7. Disaster Management Training
 8. Local Seminars
 9. Self Funded Training Program
- (See Annex 3 for further details)

(d) Beneficiaries

Direct beneficiaries of this project will be the NDMO and central & local government authorities of AMS. The project will provide the opportunity to improve and enhance not only the capacity of disaster management and proficiency in disaster response, but also collaborative working culture to resolve each other's risk and response governance challenges. Under this project, NDMO officers from 10 AMS take capability development training program at NDTI in Korea and Korean experts are dispatched to the member states based on their demand annually. Cooperation among AMSs will be more efficient and prompt in carrying out responses on disaster management.

The NDMO and people in the region will be the indirect beneficiaries of the project. Trained NDMOs would be able to conduct disaster management and response more effectively in the region, as well as aid other personnel. This would help to reduce losses and damages caused by disasters and lead to build community resilience.

3. PROJECT RESULTS

The overall goal of this project is to strengthen local disaster risk and response governance of NDMOs of AMSs, with the following objectives:

- i. Build capacity of central and local government officials of the ASEAN countries
- ii. Improve disaster risk governance of ASEAN member states
- iii. Facilitate the exchange of disaster risk management knowledge
- iv. Promote AMS NDMOs to lead collaborative disaster risk information using advanced technology such as VR

The higher-level experience eliciting real life emotions and field-like response produced by the simulator become effective tools for planning, rehearsing, assessing and enhancing the skills of individual, team, or organization with role in disaster management or response. The said features also provide more knowledge for collaboration with other actors such as fire fighter, local government, relief, and medical & health team.

To accomplish the goal, the main outcomes to be implemented are:

- A. Strengthening National Disaster Risk Management Capabilities of government officials working at different levels in the AMS NDMOs
- B. Disaster Risk Management Training and Exercise technique with virtual training simulator
- C. Supporting capacity development in the context of national and local Disaster Risk Management action plan preparation
- D. Raising the effectiveness of capacity development program(CDP) *project steering meeting will be held regularly

The CAB project (Capacity Building project) will conduct the following main courses:

- Invitational Training (disaster risk management training)

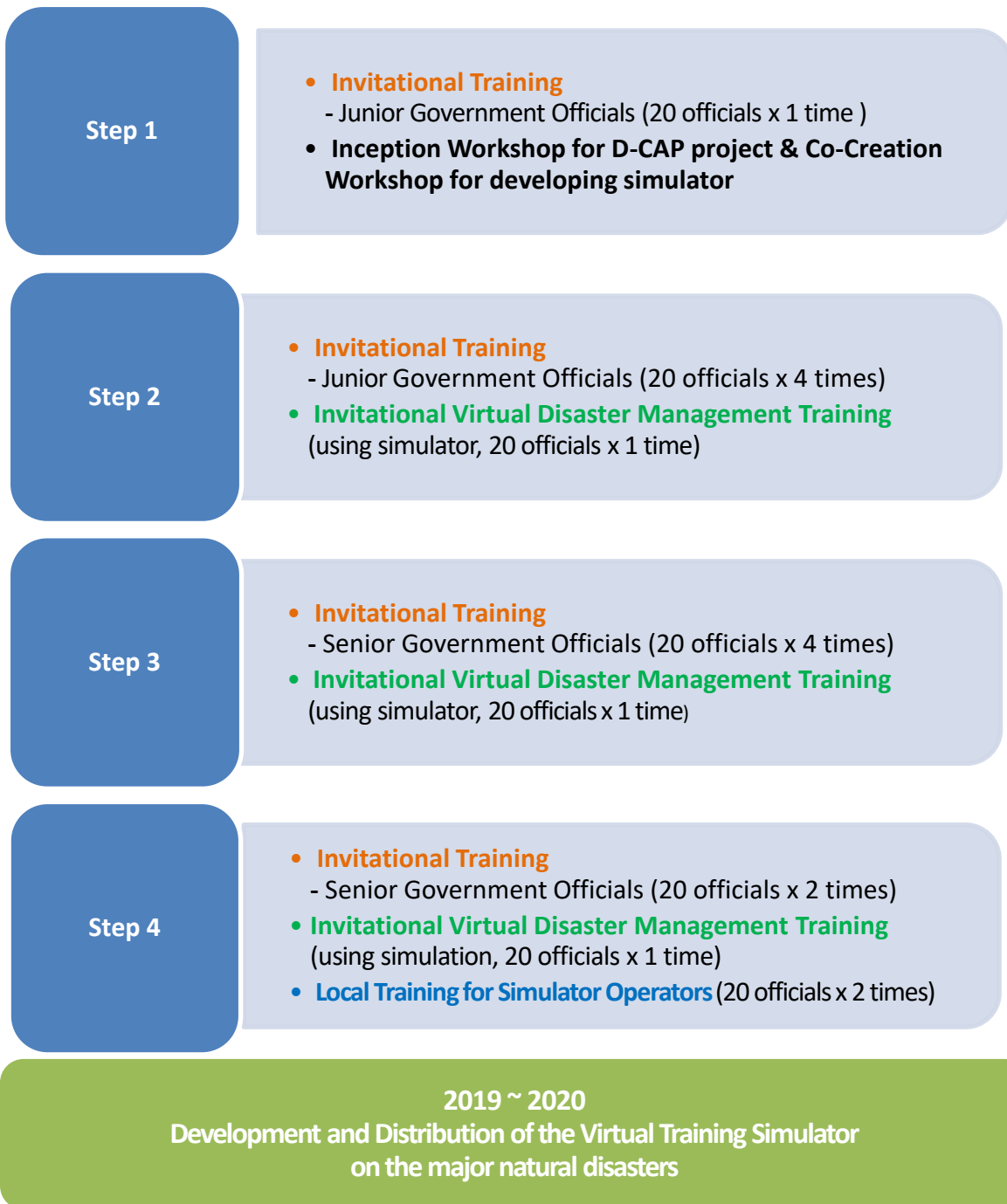
- Virtual Disaster Management Training
- Local Training (Virtual Simulator Operators)

<Training on Disaster Risk Management for NDMO>>

The CAB project will produce the trained and qualified officials.

The project will train 320 officials from 10 countries by following four steps.

** All of 10 ASEAN member states will participate in the training program and get benefits through the capacity development program*



<<Develop Virtual Disaster Risk Management Training Simulator & Distribute to AMS>>

The CAB project will develop and distribute simulator for virtual training on the major natural disasters. It

will be effective and beneficial for AMS NDMOs to build up practical experience and knowledge to improve disaster risk management training and exercise technique. The simulator equipped with the major scenarios of natural disasters developed by the NDTI will distribute to trained NDMOs in each region of the ASEAN.

To distribute the simulator, NDTI will implement the following steps:

- Demand survey for each 10 AMS (Co-Creation Workshop in 2019)
- Development consultation from the relevant bodies
- Invitational Virtual Training using simulator for NDMOs
- Local trainings for the future simulation operators
- Distribute the virtual training simulator to AMS NDMA*(on their demand)

* Brunei Darussalam (National Disaster Management Centre), Cambodia (National Committee for Disaster Management, NCDM), Indonesia (National Agency for Disaster Management, BNPB), Lao PDR (Lao People's Democratic Republic-government), Malaysia (National Disaster Management Agency, NADMA), Myanmar (Ministry of Social Welfare, Relief and Resettlement), Philippines (National Disaster Risk Reduction & Management Council, NDRRMC), Singapore (Singapore Civil Defence Force, SCDF), Thailand (Department of Disaster Prevention and Mitigation, DDPM), Vietnam (Department of Natural Disaster Prevention and Control - MARD)

* The simulator is developed and implemented based on ADMS system for ASEAN Standardized Model which can be adopted to each AMS with the common type of disaster, response manual, etc.

* For the reference of simulator, see the Annex 4

Project Objective/ Outcome:		
A. Strengthening Disaster Risk Management(DRM) Capabilities in AMS NDMOs		
Outputs	Indicators (to measure the project's achievements)	Means of Verification
Output: A.1. The capacity of AMS NDMO in DRM is strengthened.	220 trained NDMO officials (overall) satisfying the criteria of the participant's training accomplishment	Certificate of training
Main Activities: A.1.1 Training for NDMOs on DRM (in Korea) A.1.2 Training for NDMOs on DRM (outside Korea).		
Output: A.2. DRM Capacity Development Program (CDP) is developed.	Work Plan of expert & officer	List of officers
Main Activities: A.2.1 Develop and carry out CDP (with 1 Project Manager) A.2.2 Develop and carry out CDP (with 1 Project Officer) A.2.3 Develop and carry out CDP (with 2 Project Assistant)		
Project Objective/ Outcome:		
B. DRM Training and Exercise technique using new technology		
Outputs	Indicators (to measure the project's achievements)	Means of Verification

Output: B.1. Needs assessment for developing new technology is implemented and applied.	Co-Creation Workshop organized	The final report of the workshop
Main Activities: B.1.1. Needs assessment through inception & co-creation workshops		
Output: B.2. DRM Training and Exercise technique is used and developed.	Training simulators established comprising of 1 full package of simulator to be established in NDTI and mobile kit to be distributed to the AMS (see the attachment 4-1 and 4-2)	List of scenarios of natural disasters
Main Activities: B.2.1. Develop virtual DRM training simulator		
Output: B.3. DRM Training and Exercise techniques are shared with AMS	60 trained NDMO officials (overall)	List of trained NDMOs
Main Activities: B.3.1. Training for NDMOs on virtual DRM using simulator		

Project Objective/ Outcome:
C. Supporting Action plan on DRM CDP

Outputs	Indicators (to measure the project's achievements)	Means of Verification
Output: C.1. DRM Training and Exercise is disseminated to AMS	40 trained NDMO officials (overall)	List of trained NDMOs
Main Activities: C.1.1. Organize local training for simulator operators in AMS		
Output: C.2. Disseminated DRM Training and Exercise Program is facilitated to AMS	8 instructors and lecturers (in total)	List of instructors and lecturers
Main Activities: C.2.1. Invite simulator instructor and lecturers to the local training		

Project Objective/ Outcome:
D. Raising the effectiveness of CDP

Outputs	Indicators (to measure the project's achievements)	Means of Verification
Output:	Number of attendees	Attendance list

D.1. Project steering committee is organized		Meeting summary or Report
Main Activities: D.1.1. Project steering regular meeting (every six month)		
<p>4. PROJECT MANAGEMENT ARRANGEMENTS – 600 words max</p> <p>(a) Management Arrangements</p> <p>The NDTI will take the role of implementing agency together with BNPB Indonesia for the D-CAB project and the NDTI will cooperate with two partnership organizations; Disaster Management & Humanitarian Assistance Division (DMHA) of ASEAN Secretariat and BNPB Education and Training Centre.</p> <p><i>«The role of ASEAN Secretariat»</i></p> <p>The DMHA will assist to liaise with NDMO for nomination of suitable trainee to participate in the CAB project. The DMHA will become a contact point of the NDTI linking to the AMS and the related agencies (e.g. AMS NDMO, BNPB, and AKPMT). The DMHA will conduct a demand survey for the type of disasters of each AMS (dispatched expert will be in charge of it). The needs will be shared with the NDTI, and then used as a reference for the project. The Korean local expert will be selected and seconded to ASEAN Secretariat. The DMHA will offer an office for the dispatched expert (TBD).</p> <p><i>«The role of BNPB Education and Training Centre»</i></p> <p>The BNPB Education and Training Centre that have already developed the simulator will assist in the simulator development as a consultant. The Training Centre will participate in the simulator training as an instructor to train NDMOs. Also, the Training Centre will share the disaster management training program of their own with AMS NDMOs and provide a venue where the NDTI will implement the local trainings for simulation operators.</p> <p><i>«The role of Project Steering Committee»</i></p> <p>A Project Steering Committee will be established to provide guidance, monitor and evaluate of the overall project process. The Project Steering Committee meeting will be held every six months (can be held during the project training period). The members of the PSC will include WG P&M Co-Chairs, ASEC, AKPMT and NDTI. Other members could be invited depending on the meeting agenda. The project will be audited at the end of the project and financial reports will be submitted to AKPMT and ASEC.</p> <p>(b) Human Resource Inputs</p> <ol style="list-style-type: none"> 1. One Project Manager who is responsible for the overall management and coordination. (residing in Jakarta) 2. One Project Officer who will assist development of simulator and the virtual disaster management trainings. 3. Two Project Assistants who will provide logistics and administrative assistance <p>(c) Monitoring and Evaluation Arrangements</p> <p>The NDTI will submit progress reports to ASEC and AKPMT. It will include the annual report and the final report together with the financial reports. The annual report will be sent at the end of a year, while the final report will be sent at the end of the project. The ASEC will provide feedback and suggestion on progress reports.</p> <p>Training participants will be asked to complete a programme evaluation sheet after each training. Based on participants' evaluation and suggestion, the project management team will change and update training contents as necessary. The project team will organize an annual meeting of independent reviewers to improve training quality.</p>		

5. PROJECT SUSTAINABILITY – 300 words max

ASEAN and Republic of Korea (ROK) are committed to sustainable cooperation and long-term support through various ways. The CAB project is part of this sustainable cooperation between ASEAN and ROK.

Overall keynote of relationship between ASEAN and ROK will support to make the project sustainable. The Republic of Korea is committed to provide sustainable assistance and support for ASEAN Community Vision 2025 and collaborate on various cooperative ASEAN projects at the recent summits. The 19th ASEAN-ROK Summit was held on 13 November 2017 in Manila, Philippines with the Heads of all State/Government of AMS, President of ROK, and the ASEAN Secretary General in attendance. At the Summit, the ROK welcomed the progress made in ASEAN Community-building efforts and reaffirmed its commitment to contribute to the realization of the ASEAN Community Vision 2025. Likewise, the ASEAN-Republic of Korea (ROK) Strategic Partnership for Peace and Prosperity adopted in October 2010 is committed to deepening and enhancing the strategic partnership, friendly relations, mutually beneficial and meaningful cooperation between ASEAN and the ROK in the period of 2016-2020.

To ensure the project sustainability and cooperate consistently with the participating countries, the proponent and implementing agency, NDTI, will make various efforts as follows.

- NDTI will share its commitment for this project with reliable agencies, DMHA and BNPB. These specialized and long experienced agencies will make the project more sustainable and consistent
- while operating the project, NDTI will deploy personnel to monitor the project progress and submit an annual report to the stakeholders to manage the whole project and to maintain quality of the project
- NDTI will keep promoting the project for continuous interest and participation from the 10 ASEAN member states
- this project will be progressed under the commitment between ASEAN and Ministry of Foreign Affairs, ROK, which will solidify implementation and sustainability of the project

Besides delivering the capacity development program to AMS, the VR and interactive disaster risk management learning tools based on country specific natural disaster scenarios will be also distributed to ASEAN member states. These VR based learning tools can connect to all NDMOs of the ASEAN Member States. It can continue to facilitate exercise on disaster management training even after the CAB project is finished. Through simulator operators training, the trained NDMOs can use the simulator to to conduct disaster training to sub-national level.

6. GENDER AND OTHER CROSS CUTTING ISSUES – 300 words max

(a) Gender

Equal gender rights, opportunities and participation will be guaranteed all over the process; recruitment, appointment of participants, all lectures and activities throughout the project. Minimum percentage of participants will consist of women and some participants will be chosen from marginalized and underrepresented groups of disaster management officials from each member states of ASEAN

(b) Other Cross Cutting Issues

Participants will be selected from various specialized fields such as finance, safety, education, urban development, met offices, planning, etc.

7. POTENTIAL RISKS

Risk / threat	Mitigation strategy
A Language barrier resulting in communications restrictions on delivering essential information	Determining minimum English proficiency as criteria of the participant
Lack of trainee's commitment throughout the course	Determining minimum attendance as criteria of the participant's training accomplishment
Lack of institutional support in managing and operating the project	Receiving prior approval and obtaining commitments from related institute or agency in advance
Difficulty of communication with other institutes or different agency	Appoint focal point from each ACDM

Annex 1 – Budget Proposal

Annex 2 – Indicative Work Plan

Annex 3: Course Information

Annex 4: Simulator Overview