

ANNEX 4.1 OF THE ASEAN HEALTH CLUSTER 2 WORK PROGRAMME 2021-2025 MITIGATION OF BIOLOGICAL THREATS (MBT) PROGRAMME

This Annex 4.1 of the ASEAN Health Cluster 2 on Responding to All Hazards and Emerging Threats Work Programme 2021-2025 is the articulation of endorsed projects activities of Mitigation of Biological Threats (MBT) Programme Phase 2 which are aligned and complement the ASEAN Health Cluster 2 Work Programme for Health Priority 9: Regional preparedness and response to Public Health Emergencies and Health Priority 10: Strengthening laboratory capacity. All endorsed project proposals of MBT Phase 2 are available in Annex 4.2.

The operationalisation of all project activities listed in this Annex 4.1 is guided by the Governance and Implementation Mechanism (GIM) of the ASEAN Health Sector and has gone through the approval process by ASEAN Health Cluster 2 and ASEAN Senior Officials Meeting on Health Development (SOMHD). Funding and resource mobilisation for project implementation will be guided by the Contribution Arrangement (CA) between ASEAN and the Government of Canada. This is an ASEAN Health Sector initiative in strengthening health-security in ASEAN in cooperation with Canada's Weapons Threat Reduction Program (WTRP), which was institutionalised in 2014.

Background

The ASEAN Health Sector, through the collective efforts of ASEAN Health Ministers, Senior Health Officials and technical working groups and networks, have come together to secure the region from infectious diseases and promote regional health security. Through the ASEAN Post-2015 Health Development Agenda (APHDA), the ASEAN Health Sector enhanced its commitment to regional health security by making 'responding to all hazards and emerging threats' as one of its strategic priorities. This is under the purview of the ASEAN Health Cluster 2, which tackles issues such as communicable diseases, emerging infectious diseases, neglected tropical diseases and zoonotic diseases; laboratory capacity; antimicrobial resistance, environmental health including the health impact of climate change; and disaster health management.

Building on the lessons and achievements of Phases 1 and 2 of the Mitigation of Biological Threats (MBT) Programme, the programme continues to support various activities to reinforce the international, regional, and national initiatives that contribute to the enhancement of biological safety and biological security, laboratory capacity, disease surveillance, risk assessment through big data analytics and visualisation, and public health emergency preparedness and response capabilities.

Annual Regional Coordination Meeting of MBT Programme is the platform for all MBT project proponents and stakeholders to review and assess the ongoing project as well as to develop new project activities which will complement and provide added value to the ongoing initiatives of MBT and ASEAN Health Cluster 2 Work Programme and other ASEAN Health and non-Health initiatives/mechanisms.

Overall MBT Programme Objectives 2021 – 2025

1. To continue to support the operationalisation of ASEAN Health Cluster 2 Work Programme, in particular Health Priority 9: Regional preparedness and response to public health emergencies and Health Priority 10: Strengthening laboratory capacity, and towards the operationalisation of the ASEAN Centre for Public Health Emergencies and Emerging Diseases (ACPHEED) and the ASEAN Public Health Emergency Coordination System (APHECS).
2. To continue supporting the ASEAN Member States to enhance AMS capacity in IHR Core-capacities relevant to health security through regional capacity-building activities, policy advocacy, and exchange of information and expertise among the ASEAN Member States and partners.

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3. To further strengthen health security capacities of ASEAN Member States and the Region for future potential biological threats, whether naturally-occurring, accidental, or deliberate, and are committed to collaborate further on global health security and to promote a safer ASEAN that will be able to respond to all health-related hazards, and emerging threats.

Projects Development and Implementation Mechanism

1. All MBT projects are implemented under the ASEAN Health Cluster 2 Governance and Implementation Mechanism (GIM), endorsement by ASEAN Health Cluster 2 and ASEAN SOMHD are required prior to the project implementation. For resource mobilisation purposes, additional approval process will be required in consultation with potential source of support/partner. Currently, MBT Phase 2 projects are being supported by the Canada's Weapons Threat Reduction Program (WTRP), Global Affairs Canada.
2. Project activities listed in this Annex 1.1. are the ongoing MBT Phase 2 projects that are carried forward from the 2016 – 2020 ASEAN Health Cluster 2 Work Programme implementation. Additional/new project may also be included in consideration of emerging threats and/or continuation of completed project activities, ASEAN Health sector approval process is required for this exercise.
3. Financial contribution from partner for specific project implementation, will be managed by the Lead Country in coordination with the ASEAN Secretariat as the conduit of the current MBT Phase 2 financial contribution of Canada to ASEAN.

Project Activities	Expected Output/s	Lead Country/ies	Interpillar/ Intersectoral/ Intercluster	Source of Support
ASEAN Emergency Operation Centre (EOC) Network Development <i>Strategy 1: Strengthening In-Country EOC Network (National level project – Malaysia)</i>				
ASEAN Emergency Operation Centre (EOC) Network Development <i>Strategy 2: Strengthening the ASEAN EOC Network</i>				
1. Quarterly VC among AMS EOC in charge	Regular quarterly video conference on the current topic of interest, ongoing or potential PHE threats, and/or relevant global issues is conducted	Malaysia		Canada
2. Attachment for AMS EOC officers at the identified AMS EOCs	# of attachment program and personnel from all AMS participated in the attachment EOC programme	Malaysia		Canada
3. Consultation visits to AMS & assistance	a. Consultation visits to AMS Public Health EOC (PHEOC) conducted	Malaysia		Canada

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	b. Report and identified potential assistance to support the enhancement of AMS' public Health EOC is developed			
4. ASEAN Risk Assessment and Risk Communication Centre (ARARC) workshop/training for AMS	a. Workshop/training conducted by ARARC annually with participation of all AMS b. Topics identified based on the ongoing/current issues and will also focus on Chemical Biological Radiology Nuclear and Explosive (CBRNe) issues	Malaysia		Canada
5. Mini conference on RARC	Regional conference on Risk Assessment and Risk Communication is conducted	Malaysia		Canada
6. PHEOC and CBRNe training	Courses/training on CBRNe and PHEOC with participation of AMS conducted annually	Malaysia		Canada
7. ASEAN EOC Network Certified Online Course in collaboration with Accredited Institution	Certified online course conducted with participation from ASEAN Member States	Malaysia		Canada
8. Joint Simulation Exercise	Joint simulation exercises by AMS PHEOCs participants conducted annually	Malaysia		Canada
9. Yearly meeting for initiation, assessment, or wrap-up	Annual Meeting is conducted	Malaysia		Canada

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10. Study visits to Canada PHEOC Canada	Study visits of AMS's PHEOC personnel to Public Health Agency of Canada is conducted	Malaysia		Canada
11. Coordination Meeting on Pandemic Preparedness and Response	Coordination Meeting among AMS and partners to assess regional preparedness, stockpile, and resource mobilisation in responding to public health emergencies	Malaysia	ACDM	Canada
12. Develop a generic Guideline on the preparedness and response to all hazards	a. Workshop to finalise the generic guideline on preparedness and response to all hazards with participation of relevant sectors is conducted b. Generic SOP is finalised	Cambodia Malaysia	ACDM AMAF ARF	Canada
13. Enhancing the coordination of ASEAN Partnership on Laboratory	Networking of reference laboratory among AMS is established.	Malaysia		Canada
ASEAN Emergency Operation Centre (EOC) Network Development <i>Strategy 3: Collaboration with Disaster Management in ASEAN</i>				
14. Consultative Meeting between ASEAN Health Sector (SOMHD) with Disaster Management (ACDM) and others relevant sector	Collaboration and identification of collaboration between ASEAN Health sector with relevant ASEAN non-health sector on disaster health management and public health emergencies	Malaysia	ACMD AMAF ARF	Canada
ASEAN Emergency Operation Centre (EOC) Network Development <i>Strategy 4: Engage dedicated officer for ASEAN EOC Network</i>				

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15. Dedicated officer to coordinates implementation of activities of ASEAN EOC Network	Project coordinator for ASEAN EOC Network is hired	Malaysia		Canada
Big Data Analytics and Visualisation – ASEAN BioDiaspora Project <i>Strategy 1: Establishment of a virtual Regional Centre for BioDiaspora (National level project – Philippines)</i>				
Big Data Analytics and Visualisation – ASEAN BioDiaspora Project <i>Strategy 2: Strengthening the network of existing national and regional (ASEAN) capacity for big data analytics and visualization</i>				
16. Program Manager at the ASEAN level, based in the Philippines (Project Management Team)	Program manager hired	Philippines		Canada
17. Identify trained technical focal persons in each AMS, and have regular communication with BTARC	ASEAN focal points identified	Philippines		Canada
18. Regional (AMS) Training of BioDiaspora Focal Points	Regional training conducted	Philippines		Canada
19. Develop training module/ regular monthly risk assessments	Training module and regular monthly risk assessment developed	Philippines		Canada
20. Creation of a Regional Call Centre	Call centre created	Philippines		Canada AMS (in-kind)
21. ASEAN-BioDiaspora Coordination Committee Meeting	ASEAN BioDiaspora Coordination Committee (ABCC) Meeting conducted regularly	Philippines		Canada AMS (in-kind)

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Big Data Analytics and Visualisation – ASEAN BioDiaspora Project <i>Strategy 3: Continuous Development and Maintenance of the system</i>				
22. Monitoring and Evaluation Activities	Monitoring and evaluation activities conducted	Philippines		Canada
23. Collection and sharing of data as agreed by the committee members	Data shared and collected as agreed by the ABCC	Philippines		Canada
24. Software improvement	Software improved regularly	Philippines		Canada BlueDot
Big Data Analytics and Visualisation – ASEAN BioDiaspora Project <i>Strategy 4: Establish a policy framework for project sustainability</i>				
25. Monitoring and Evaluation activities	M&E system established and implemented	Philippines		Canada
26. Cost-sharing mechanism with other AMS	Cost sharing mechanism with AMS established	Philippines		Canada
ASEAN+3 Field Epidemiology Training Network <i>Strategy 1: Intensify FETP workforce capacity and development in ASEAN+ 3 Countries to ensure sustainable epidemiology workforce in the region</i>				
27. Utilize Field/Applied epidemiology graduates and alumni based on multilateral and multidisciplinary approach workforce capacity strengthening, mobilization and deployment.	a. Joint workshop/training between FET graduates and/or alumni form field epidemiology and other professionals at national level and international level among ASEAN + 3 countries	TBC		Canada AMS (in-kind)

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	b. # of exchange FET graduates and/or alumni to exchange/visit in willingness country			
<p>28. Hybrid* Field Epidemiology Training and relevant courses to enhance Field Epidemiology capacity, capability, and productivity (2+7+9)</p> <p>* Hybrid = In-person training in host country and participant from other countries join virtually.</p>	<p>a. Increase # of applied Field Epidemiology graduated among ASEAN+3 countries each year by different tier level (basic, intermediate and advance)</p> <p>b. At least 1 international hybrid training for trainee and graduates conducted each year</p>			<p>Canada</p> <p>AMS (in-kind)</p>
<p>29. Strengthen national disease surveillance by integration of information technology (IT) and FET training skill for data management and manipulation <i>(note* to ensure capacity for rapid field data management/analysis, focus on emerging problems)</i></p>	FET trainee and graduates have practical knowledge and skills of data management and manipulation for surveillance purposes	AMS		<p>Canada</p> <p>AMS (in-kind)</p>
<p>30. Enhancing and development of FET professional training to prepare and respond to unpredicted emerging infectious diseases practically and efficiency.</p>	<p>a. Revisit/revise FET curriculum being competence with national contents and capability among ASEAN + 3 FETN countries.</p> <p>b. Conferences among ASEAN + 3 to share mini-research/revisit/revise curriculum of field epidemiology activities in the scenario of normal situation and emergency</p>			<p>Canada</p> <p>AMS (in-kind)</p>

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ASEAN+3 Field Epidemiology Training Network <i>Strategy 2: Strengthen multi-sectoral collaboration through the implementation of One Health Approach</i>				
31. Regular Joint collaborative Meetings/ with ASEAN Veterinary Epidemiology Group (AVEG) and/or other existing professional networks in ASEAN	Annual meeting with AVEG or other existing professional networks in ASEAN	ASEAN+3 FETN Chair	AVEG	Canada AMS (Cost Sharing)
32. Multi-disciplinary joint training to strengthen field epidemiology based on One Health Approach.	Series/as necessary virtual online meeting to share experiences/ lessons learned and best practice across different professionals.			Canada
33. Establish of ASEAN + 3 Field Epidemiology Technical Expert/Advisory Group	a. Established Technical Expert/Advisory (TEA) Group composed of various advisory professional of field epidemiology from ASEAN + 3 countries. b. Regular Meeting/technical exchanges among the experts.	Chair of ASEAN+3 FETN	AVEG	Canada
34. Joint mini research/project on disease surveillance at border areas	Joint mini research/project conducted through multi-country collaboration.			Canada
ASEAN+3 Field Epidemiology Training Network <i>Strategy 3: Nourish efficient and effective ASEAN+3 FETN working and coordination mechanism in ASEAN Health Cluster 2</i>				
35. Annual Steering Committee Meeting of ASEAN+3 FETN	Concurrent of progress, workplan and the way forward discussed in the annual Steering Committee Meeting			Canada AMS (Cost Sharing)

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36. Annual ASEAN + 3 FETN conference to present FET lessons learned and best practices by inviting existing partners/ potential partners to participate	Collaboration with development partners to light the ASEAN + 3 FETN platform up in the international/global level for being effective and efficiency platform for being operational FET workforce capacity and capability, are being strengthen.			Canada
37. Dialogue/bilateral collaborative meeting with existing and potential development partners	Collaborative/bilateral and dialogue meeting with existing development partner for technical and financial support by development partners.			Canada
Strengthening ASEAN Capacity on Biosafety, Biosecurity, and Bioengineering <i>Employing a Feasibility Study as a tool for Establishing a Regional Biobank of High Risk Biological Agents and Emerging Dangerous Pathogens</i>				
38. Regional Consultative Meeting/Workshops/Technical Working Group (TWG) in the development of feasibility study tools	Regional meeting/workshop in the development and finalisation of feasibility study tools conducted	Philippines and Singapore		Canada
39. Data gathering, analysis and preparation of the feasibility report (visits, report writing, etc.	a. Data and information collected b. Analysis conducted c. Draft feasibility study report developed			Canada
40. Regional Meeting to review and finalise the results from the feasibility study	Regional Meeting to review and finalise the draft feasibility study report conducted			Canada

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Strengthening ASEAN Capacity on Biosafety, Biosecurity, and Bioengineering <i>Enhancing Biosafety, Biosecurity and Bioengineering for Health Laboratories in ASEAN – Improvement and maintaining BSC standard and enhancing Bioengineering.</i>				
41. Biological safety cabinet certification	Certification training conducted with 24 participants, 8 instructors and 5 staff	Thailand		Canada
42. Onsite visit and training of BSC certification in five AMS	Visit and training conducted in AMS	Thailand		Canada
43. Lending of BSC certification for practice	Practice and hands-on training conducted	Thailand		Canada
44. Enhance the bioengineering concepts on BSL-3 commissioning and BSL-4 regulations in Thailand and ASEAN	Identified staff of Thailand MOPH and from selected AMS attended BSL-3 commissioning and BSL-4 regulations	Thailand		Canada
45. Establish the web portal for Biosafety online-training and communication purposes	Connects all participants between each other and to BSC users in need for assistance on BSC issues using a web portal that is to be developed in this project.	Thailand		Canada
Strengthening ASEAN Capacity on Biosafety, Biosecurity, and Bioengineering <i>Enhancing Biosafety, Biosecurity and Bioengineering for Health Laboratories in ASEAN – Biorisk Management Toolkit Harmonization</i>				
46. Biorisk Management Toolkit Harmonization	a. Identified participants from AMS are trained as BRM trainer using the ASEAN BRM toolkit b. BRM trainers delivers training to local health staffs in their countries using the developed ASEAN BRM toolkit	Thailand		Canada

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47. Making of One Health Biorisk Management Toolkit	One Health Toolkit that capture the necessary concepts to mitigate the health crisis with interchange between animals and humans	Thailand		Canada
Strengthening ASEAN Capacity on Biosafety, Biosecurity, and Bioengineering <i>Enhancing Biosafety, Biosecurity and Bioengineering for Health Laboratories in ASEAN – Establish a Thailand regional training centre for Biosafety, Biosecurity and Biorisk Management</i>				
48. Conduct two workshops on Biosafety, BSC technology and Biorisk management for identified participants from Lao PDR (This activity is co-funded by Lao PDR proposed project under this round of Canada GPP)	Workshops for Biosafety cabinet technology, maintenance and certification and Biorisk management for hospital staffs from Lao PDR	Thailand		Canada
49. Provide three trainings (45 participants each) for staffs from health laboratories in upper north-eastern Thailand	a. Staffs from health laboratories in upper northeastern Thailand are trained for biosafety, biosecurity and biorisk management b. RMSC Udonthani has more staffs who are capable as Biosafety, Biosecurity and Biorisk Management trainers	Thailand		Canada
Strengthening ASEAN Capacity on Biosafety and Biosecurity in ASEAN Member States and Lao PDR <i>Knowledge Management in Biosafety Regulation</i>				
50. Regional workshop on knowledge management on Biosafety Regulation	Regional workshop with the participation of AMS is conducted	Lao PDR		Canada

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Sustain and Strengthen Biosafety and Biosecurity in CLMV Countries (MBDS) <i>Technology Transfer for Real-Time Reporting of Public Health Threat Events</i>				
51. Server, data compiling, and information, dissemination (CLMV)	Server, data, and information are disseminated	MBDS		Canada
52. Data management in CLMV	Data management in CLMV Countries is managed	MBDS		Canada
53. Reporting and integration with existing program	Reporting mechanism is integrated with existing program	MBDS		Canada
54. ICT regional coordination	ICR regional coordination is established and conducted	MBDS		Canada
55. Logistic and equipment for reporting apparatus, Thermoscan & PPE (CLMV)	Logistic and equipment for reporting apparatus, Thermoscan & PPE (CLMV) are established	MBDS		Canada
Sustain and Strengthen Biosafety and Biosecurity in CLMV Countries (MBDS) <i>Regional Risk Assessment Training for CLMV Cross-Border Coordinators</i>				
56. Develop regional SOP for risk assessment in MBDS cross-border (CLMTV)	Regional SOP for risk assessment in MBDS cross-border (CLMTV) is developed	MBDS		Canada
57. Risk assessment training for cross border coordinators	Risk assessment training for cross border coordinators is conducted	MBDS		Canada

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Sustain and Strengthen Biosafety and Biosecurity in CLMV Countries (MBDS) <i>Infection Prevention Control (IPC) Related with Public Health Threat Prevention and Control</i>				
58. Updating Biosafety and Biosecurity related information in MBDS Biosafety website for information, knowledge sharing, and training purposes	Biosafety and Biosecurity related information in MBDS Biosafety website for information, knowledge sharing, and training purposes are updated	MBDS		
59. Multi-sectoral risk assessment training guideline related with public health threats (CLMV)	Multi-sectoral risk assessment training guideline related with public health threats (CLMV) is conducted	MBDS		
Sustain and Strengthen Biosafety and Biosecurity in CLMV Countries (MBDS) <i>Establishment of External Quality Assessment (EQA) Network Among CLMV Countries</i>				
60. Workshop on EQA program re-assessment and planning (2 nd)	Workshop on EQA program re-assessment and planning (2 nd) is conducted	MBDS		
61. Knowledge and experience sharing EQA program to other AMS laboratories and countries a. Development of EQA program website b. Develop software for EQA program management and operation	Knowledge and experience sharing EQA program to other AMS laboratories and countries	MBDS		
62. Establish and carry out a pilot EQA program in CLMV countries	Pilot EQA program in CLMV countries is established and carried out	MBDS		