
**Meeting of the States Parties to the Convention
on the Prohibition of the Development,
Production and Stockpiling of Bacteriological
(Biological) and Toxin Weapons and on Their
Destruction**

9 December 2013

English only

2013 Meeting

Geneva, 9–13 December 2013

Item 7 of the agenda

**Standing agenda item: cooperation and assistance,
with a particular focus on strengthening cooperation
and assistance under Article X**

**International Cooperation and Assistance of Japan related to
Article X**

Submitted by Japan

1. The Biological and Toxin Weapons Convention (BWC) plays an increasingly important role in the field of non-proliferation and disarmament, particularly due to the current biological threats, such as terrorism by non-state actors which cause a great deal of concern. It can be said that the BWC also aims at countering biological threats, given that Article 1 of the BWC prohibits development, production, stockpile, acquisition and retention of microbial or other biological agents, or toxins that have no justification for prophylactic, protective or other peaceful purpose, “whatever their origin or method of production”. In order to diminish the threat of biological weapons, it is indispensable to promote the universalisation of the Convention and to fully implement it. In addition, it is also critical for State Parties to collaborate to counter biological threats. In this regard, Japan attaches great value on international cooperation and assistance to enhance national capacity for implementation of the BWC and welcomes the decision to set out “cooperation and assistance” as one of the standing agenda items during the current intersessional process.

2. The reports by State Parties on their implementation of Article X which are indicated in sub-item (a) under agenda item “cooperation and assistance” contribute to discussions regarding other sub-items, (b) to (g), and is also a means to better demonstrate their compliance of the BWC¹. To this end, Japan would provide information on international cooperation and assistance by Japan from September 2011 to October 2013 as a report of implementation of Article X of the BWC.

3. Japan has provided assistance to promote peaceful uses of biological agents, and to expand and apply scientific knowledge in life science through various frameworks.

¹ BWC/MSP/2013/MX/WP.18.

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Bilateral cooperation in the field of biology and biotechnology (Projects list is attached in the annex)

4. Japan has contributed to capacity building in developing countries in the field of biology and biotechnology through several aid schemes such as grant aid, technical cooperation projects and technical assistance through training courses. While taking preventive measures for the development of biological weapons and threats, it is necessary to take measures in order to rapidly and properly respond to occurrences of biological threats and to minimize its damages. In this regard, it is important to improve upon capacities for surveillance, detection, and diagnosis of infectious diseases in the public health sector. Japan's contribution has enhanced such capacities in recipient countries.

Contributions for measures against infectious diseases through multilateral frameworks (Projects list is attached in the Annex)

5. Japan has actively contributed to the activities of international organizations such as the World Health Organization (WHO), the World Organisation for Animal Health (OIE), and the Food and Agriculture Organization of the United Nations (FAO), which address biological threats with a deferential perspective from the BWC. Their independent activities and engagement will assist BWC efforts related to biological threat reductions. Assistance in accordance with Article X of the BWC needs to be implemented in a manner which avoids the duplication of work and uses resources efficiently. At the same time, State Parties should make use of networks among international organizations and strengthen their capacity through collaboration developed in the interactions with and among international organizations.

Regional cooperation for countering biological threats

6. Considering that biological threats could expand beyond national territories, regional cooperation activities in this field play a great role to increase preparedness against biological threats. Japan has participated in regional cooperation against biological events, such as terrorism by non-state actors. (Projects list is attached in the Annex)

7. To prepare for a naturally occurring biological threat, Japan, through the Japan-ASEAN Integration Fund (JAIF), provided stockpiling and emergency transportation of anti-viral drugs for 1,000,000 people and personal protective equipment (PPE) for 700,000 people to ASEAN for a rapid containment of a potential influenza pandemic. This programme successfully concluded in 2013.

Other initiatives

8. In the field of biology and biotechnology, developing countries and developed countries have been working as a partner, beyond a mere donor-recipient relationship. In this regard, Japan is implementing "the Japan Initiative for Global Research Network on Infectious Diseases (J-GRID): The second phase of the program (2010-2014)". Through a network of 13 collaborative research centres in 8 countries (six in Asia and two in Africa), this project, continually and notably, contributes to the further advancement of research activities related to infectious diseases and will pursue further collaboration with domestic and international research institutions. In addition, interaction and exchange activities among specialised institutions are deepening. Japanese experts from the National Institute

of Infectious Diseases (NIID) of Japan and from the National Defence Medical College of Japan participated in the workshop entitled “Dual Use Research Concern (DURC)” organized by the National Institute of Health (NIH) of the United States in 2011, and the 5th International Annual CBRNe World Conference and Exhibition in 2012 respectively.

9. The working paper submitted by Japan on behalf of JACKSNNZ in 2009² demonstrates some points which should be considered to carry out international cooperation. These points are summarized as follows: first, assistance should be tailored to meet the diverse circumstances and needs of each recipient State in accordance with ownership (self-reliance) efforts and sustainability. Second, such assistance needs to be carried out in a manner that contributes to the non-proliferation of biological weapons. An evaluation should take place to determine whether recipient States have placed pathogens and toxins under proper regulation and control, which includes their import and export. Third, international cooperation should be implemented in a manner which avoids the duplication of work and uses resources efficiently. Lastly, assistance should contribute to the promotion of biosecurity and biosafety, and to develop human resources through education and training.

10. The aforementioned multi-layered efforts on international cooperation by Japan indicate that by providing comprehensive international cooperation and assistance, including technical exchange and development of human resources in the health sector, it is possible to implement Article X as well as reduce biological threats. Furthermore, while providing a wide range of assistance in the field of peaceful uses of biotechnology, the list of projects doesn't contain cooperative activities and exchanges provided by industries, academic societies, and educational institutions. Through their own initiatives and expertise in a specific area, they may have a greater impact than activities through governmental channels. Given the recent global development of research and industry in the field of life science, it would be important to create or improve a legal environment in which industries, academic societies, and educational institutions could engage activities to further promote peaceful uses of biological agents and technologies in accordance with clear standards. In other words, it is critical for State Parties to develop legal frameworks in order to implement the Article 3 and 4 of the Convention to further promote an exchange in that field. In this regard, international cooperation to support implementation of Article 3 and 4 of the BWC is crucial, and Japan anticipates a discussion regarding this point which will contribute to the agenda item “cooperation and assistance”.

² BWC/MSP/2009/WP.3.

Annex

International cooperation and assistance of Japan related to the Biological and Toxin Weapons Convention (August 2011 - October 2013)

I. Bilateral cooperation in the field of biology and biotechnology

(a) Grant Aid Project

	<i>Project</i>	<i>Exchange of Note</i>	<i>Budget</i>
1	The Project for Strengthening the National Laboratory for Controlling the Highly Pathogenic Avian Influenza and other Emerging and Re-emerging Infectious Diseases	Mar 2013	210,000,000 (JPY)

(b) Technical Cooperation Projects

	<i>Project</i>	<i>Duration</i>	<i>Partner</i>
1	The Project to Enhance Surveillance System for Avian Influenza	Oct 2008 - Oct 2011	Indonesia
2	Identification of Anti-Hepatitis C Virus (HCV) Substances and Development of HCV and Dengue Vaccines	Feb 2010 - Feb 2014	Indonesia
3	Prevention and Control of Leptospirosis in the Philippines	Apr 2010 - Mar 2015	Philippine
4	The Project for Comprehensive Etiological and Epidemiological Study on Acute Respiratory Infections in Children	Apr 2011 - Mar 2016	Philippine
5	Project for Research and Development of Therapeutic Products against Infectious Diseases, especially Dengue Virus Infection	Jul 2009 - Jul 2013	Thailand
6	Project for Strengthening Capacity of Inspection System for Ensuring Safety of Agro-Fishery Foods	Dec 2011 - Nov 2014	Viet Nam
7	Project for capacity development for laboratory network in Vietnam of Bio safety and examination of Highly Hazardous infectious pathogen	Feb 2011 - Jan 2016	Viet Nam
8	Determine the Outbreak Mechanisms and Development of a surveillance Model for Multi-Drug Resistant Bacteria	Mar 2012 - Mar 2017	Viet Nam
9	Project for Strengthening of Health Education for Prevention of Infectious Diseases through Family Health	Jan 2011 - Jan 2016	China
10	Technical Project for Hygiene	Nov 2010 - Oct 2015	China

	<i>Project</i>	<i>Duration</i>	<i>Partner</i>
11	Expanded Program on Immunization (EPI)	Mar 2009 - Feb 2012	Bhutan
12	Project for Research and Development of Prevention and Diagnosis for Neglected Tropical Diseases, especially Kala-Azar	Jul 2011 - May 2016	Bangladesh
13	Project for the Control of Chagas Disease (Establishment of Sustainable Surveillance System)	Jul 2009 - Jun 2012	Guatemala
14	Strengthening of Activities of Survey and Control for Chagas Disease	Sep 2009 - Aug 2014	Nicaragua
15	The Project for Development of Rapid Diagnostics and the Establishment of an Alert System for Outbreaks of Yellow Fever and Rift Valley Fever	Jan 2012 - Jan 2017	Kenya
16	Studies of Anti-viral and Anti-parasitic Compounds from Selected Ghanaian Medicinal Plants	Apr 2010 - Mar 2015	Ghana
17	Project for Enhancing the Early Warning and Response System of Infectious Disease	Dec 2012 - Nov 2017	Indonesia
18	Identification of Anti-Hepatitis C Virus (HCV) Substances and Development of HCV and Dengue Vaccines	Feb 2010 - Feb 2014	Indonesia
19	Project for Enhancing the Early Warning and Response System of Infectious Disease	Dec 2012 - Nov 2017	Indonesia
20	Prevention and Control of Leptospirosis in the Philippine	Apr 2010 - Mar 2015	Philippine
21	The Project for Comprehensive Etiological and Epidemiological Study on Acute Respiratory Infections in Children	Apr 2011 - Mar 2016	Philippine
22	Project for Research and Development of Therapeutic Products against Infectious Diseases, especially Dengue Virus Infection	Jul 2009 - Jul 2013	Thailand
23	Project for Strengthening Capacity of Inspection System for Ensuring Safety of Agro-Fishery Foods	Dec 2011 - Nov 2014	Viet Nam
24	Project for capacity development for laboratory network in Vietnam of Bio safety and examination of Highly Hazardous infectious pathogen	Feb 2011 - Jan 2016	Viet Nam
25	Determine the Outbreak Mechanisms and Development of a surveillance Model for Multi-Drug Resistant Bacteria	Mar 2012 - Mar 2017	Viet Nam
26	The Project for Strengthening Capacity for Measles-Rubella Combined Vaccine Producti	May 2013 - Mar 2018	Viet Nam
27	Project for Strengthening of Health Education for Prevention of Infectious Diseases through Family Health	Jan 2011 - Jan 2016	China
28	Technical Project for Hygiene	Nov 2010 -	China

<i>Project</i>	<i>Duration</i>	<i>Partner</i>
	Oct 2015	
29 Project for Research and Development of Prevention and Diagnosis for Neglected Tropical Diseases, especially Kala-Azar	Jun 2011 - May 2016	Bangladesh
30 Strengthening of Activities of Survey and Control for Chagas Disease	Sep 2009 - Aug 2014	Nicaragua
31 The Project for Development of Rapid Diagnostics and the Establishment of an Alert System for Outbreaks of Yellow Fever and Rift Valley Fever	Jan 2012 - Jan 2017	Kenya
32 Studies of Anti-viral and Anti-parasitic Compounds from Selected Ghanaian Medicinal Plants	Apr 2010 - Mar 2015	Ghana
33 Project for Surveillance of viral zoonoses in Africa	Jun 2013 - May 2018	Zambia

(c) **Technical assistance through training courses**

<i>Project</i>	<i>Duration</i>	<i>Partner</i>	<i>Recipient</i>
1 Zoonosis Control	Aug 2011 - Sep 2011	Hokkaido University	Indonesia, Laos, Mongolia, India, Argentina, Uruguay, Jordan, Zimbabwe, China, Myanmar
2 Enhancement of Community Health Systems for Infection Control (A)	Sep 2011 - Nov 2011	Okinawa Nursing Association	Indonesia, Viet Nam, Bangladesh, Pakistan, Marshall, Solomon, Nicaragua, Saint Lucia
3 Countermeasure for Communicable Diseases	Feb 2012 - Mar 2012	Japan International Cooperation of Welfare Services	Tajikistan, Panama, Chad, Malaysia, Bangladesh, Mongolia, Ghana, Philippines, Ethiopia
4 Seminar on Viral Hepatitis - Epidemiology, Prevention and Treatment	Oct 2011 - Nov 2011	National Hospital Organization Kumamoto Medical Center	Fiji, Indonesia, Myanmar, China, Senegal, Mongolia
5 Enhancement of Community Health Systems for Infection Control(B)	Jan 2012 - Mar 2012	Okinawa Nursing Association	Ethiopia, Ghana, Tanzania, Zimbabwe
6 Enhancement of Community Health Systems for Infection Control(B)	Sep 2012 - Nov 2012	Okinawa Nursing Association	Indonesia, Cambodia, Viet Nam, Bangladesh, Pakistan, Marshall, Solomon, Nicaragua, Saint Lucia
7 Seminar on Viral Hepatitis - Epidemiology, Prevention and	Aug 2012 - Sep 2012	National Hospital Organization Kumamoto	Myanmar, China, Mongolia, Pakistan, Fiji, Senegal

<i>Project</i>	<i>Duration</i>	<i>Partner</i>	<i>Recipient</i>
Treatment		Medical Center	
8 Zoonosis Control	Aug 2012 - Sep 2012	Hokkaido University Research Center for Zoonosis Control	China, Laos, Jordan, Zimbabwe, Argentine, Mongolia, Indonesia, Myanmar, Uruguay
9 Training for Japanese ODA Loan Public Health Project	Nov 2010 - Dec 2011	Health Department of Heilongjiang Province in China	China
10 Prevention and Zoonosis Control of South American region	Oct 2011 - Mar 2014	La Plata National University, Faculty of Veterinary in Argentina	Uruguay, Paraguay, Peru, Bolivia
11 Capacity Development on Food Control and Food Laboratory Analysis for Food Inspectors and Food Laboratory Technicians in Palestine	Jul 2009 - Mar 2012	Jordan Food and Drug Administration JFDA	Palestine
12 Research for Health in Relation to Infectious Diseases of Poverty	Oct 2010 - Oct 2012	Tunis Pasteur Institute /Tunisian Agency for Technical Cooperation / World Health Organization	Algeria, Ethiopia, Kenya, Sudan, Senegal, Tanzania, Nigeria, Burukina Faso, Mali, Morocco
13 Third Country Training Programme: Diagnosis of avian influenza at source	Apr 2012 - Mar 2015	Department of Veterinary Services, Ministry of Agriculture and Agro-Based Industry Malaysia	□
14 Third Country Training Programme: International Course on Development of Immunobiologicals to the Public Health	Nov 2006 - Mar 2012	Butantan Institute	Argentina, Uruguay, Ecuador, Colombia, Venezuela
15 Isolation of Respiratory Viruses	Oct 2011 - Dec 2011	School of Medicine, Tohoku University	Philippine

	<i>Project</i>	<i>Duration</i>	<i>Partner</i>	<i>Recipient</i>
16	Countermeasure for Communicable Diseases	Feb 2012 - Mar 2012	Japan International Cooperation of Welfare Services	Bhutan
17	Dengue DNA Vaccine	Jan 2013 - Mar 2013	Kobe University Graduate School of Medicine	Indonesia
18	Dengue DNA Vaccine (1)	May 2013 - Aug 2013	Kobe University Graduate School of Medicine	Indonesia
19	Dengue DNA Vaccine (2)	May 2013 - Jun 2013	Kobe University Graduate School of Medicine	Indonesia
20	Dengue DNA Vaccine (3)	May 2013 - Jul 2013	Kobe University Graduate School of Medicine	Indonesia
21	Research on Leptospirosis	Jul 2013	Kyushu University School of Medicine	Philippine
22	Research on Leptospirosis (3)	Nov 2012 - Dec 2012	Kyushu University School of Medicine	Philippine
23	Expression and purification of NS2B-NS3 protease	Jun 2013	Research Institute for Microbial Diseases, Osaka University	Thailand
24	Animal Model Development	Jan 2013 - Feb 2013	Research Institute for Microbial Diseases, Osaka University	Thailand
25	HMAb Characterization	Jan 2013 - Feb 2013	Research Institute for Microbial Diseases, Osaka University	Thailand
26	HMAb Characterization 2	Apr 2013 - May 2013	Research Institute for Microbial Diseases, Osaka University	Thailand
27	Animal Model Development 2	Apr 2013 - Jun 2013	Research Institute for Microbial Diseases, Osaka University	Thailand
28	Training in Strengthening of Tuberculosis Control toward MDGs and TB Elimination	May 2013 - Aug 2013	The Research Institute of Tuberculosis, Japan Anti-Tuberculosis	Cambodia, Zambia, Afganistan, China, Kenya, Myanmar, Sudan, Philippine, Pakistan, Papua New Guinea

<i>Project</i>	<i>Duration</i>	<i>Partner</i>	<i>Recipient</i>
		Association	
29 Seminar on Viral Hepatitis - Epidemiology, Prevention and Treatment	Sep 2013 - Oct 2013	(National Hospital Organization Kumamoto Medical Center	Laos, Senegal, China, Mongolia, Indonesia, Ethiopia
30 (Enhancement of Community Health Systems for Infection Control (A)	Jan 2013 - Feb 2013	Okinawa Nursing Association	Myanmar
31 Mycotoxin Inspection for Food Safety	Jan 2013 - Apr 2013	Kobe Institute of Health	Myanmar, Sri Lanka, Chile, Argentina, Thailand, Mongolia
32 Clinical Laboratory Technology (Clinical Microbiology)	Jan 2013 - Mar 2013	Japan International Medical Technology Foundation	Libya, Myanmar, Kiribati, Samoa, Panama, Ethiopia, Kenya
33 Analysis of Aflatoxin	Nov 2012 - Dec 2012	Yokohama Quarantine Station	Viet Nam
34 Bio-safety Training	Aug 2013 - Sep 2013	National Institute of Infectious Diseases	Viet Nam
35 Human resource development project in public health	Nov 2012 - Feb 2013	Kanagawa Prefectural Institute of Public Health	China
36 Laboratory Diagnostic Techniques for the Control of Vaccine Preventable Disease	Feb 2013 - Mar 2013	National Institute of Infectious Diseases	China
37 Countermeasure for Communicable Diseases	Feb 2013	Japan International Corporation of Welfare Services	China, Panama, Ethiopia, Tajikistan, Mongolia, Ghana, Cote D'Ivoire, Bangladesh
38 Toxicity Screening of Plant Extracts and Purified Compounds Using Cell Lines	Jan 2013 - Mar 2013	Nagasaki International University	Ghana
39 Reinforcement of Administrative Capacity for Food Sanitation	Jan 2013 - Mar 2013	Kitakyushu International Techno-cooperative Association	Senegal, Mozambique, Papua New Guinea, Samoa, Rwanda, Fiji

	<i>Project</i>	<i>Duration</i>	<i>Partner</i>	<i>Recipient</i>
40	(Enhancement of Community Health Systems for Infection Control (C))	Jan 2013 - Mar 2013	Okinawa Nursing Association	Tanzania, Ghana, Ethiopia, Angola, Zimbabwe, Haiti

II. Contributions for measures against infectious diseases through multilateral frameworks

	<i>Project</i>	<i>Year</i>	<i>Budget</i>
1	OIE, FAO (The Global Framework for the Progressive Control of Transboundary Animal Diseases (GF-TADs))	2011	568,859 USD
2	OIE (OIE/Japan Trust Fund Programme for Strengthening Highly Pathogenic Avian Influenza Control in Asia)	2011	674,370 USD
3	OIE (Strengthening of diagnostic capacity of national laboratories on priority animal disease in collaboration with OIE Reference Laboratories.)	2011	203,239 USD
4	OIE (Improvement of animal health in the Asian and Pacific region/Support for Development of international standards)	2011	145,375 USD and 149,800 EURO
5	OIE, FAO (The Global Framework for the Progressive Control of Transboundary Animal Diseases (GF-TADs))	2012	633,901 USD
6	OIE (OIE/Japan Trust Fund Programme for Strengthening Highly Pathogenic Avian Influenza Control in Asia)	2012	667,964 USD
7	OIE (Strengthening of diagnostic capacity of national laboratories on priority animal disease in collaboration with OIE Reference Laboratories.)	2012	168,631 USD
8	OIE (Improvement animal health in the Asian and Pacific region/Support for Development of international standards)	2012	124,588 USD and 152,223 EURO
9	OIE, FAO (The Global Framework for the Progressive Control of Transboundary Animal Diseases (GF-TADs))	2013	562,291 USD
10	OIE (Prevention and Control of Zoonoses under One Health approach and strengthening capacity of Veterinary Services)	2013	739,324 USD

	<i>Project</i>	<i>Year</i>	<i>Budget</i>
11	OIE (Improvement animal health in the Asian and Pacific region/Support for Development of international standards)	2013	103,972 USD and 152,223 EURO

III. Regional cooperation for countering biological threats

(a) Participation in seminars and conferences against biological terrorism

	<i>Workshop</i>	<i>Year</i>	<i>Host</i>
1	ARF workshop on disease and surveillance and detection	Sep 2011	Philippine
2	ARF workshop on preparedness and response to a biological event	Sep 2012	Philippine
3	The 13th Defence Services Asia in 2012 (CBRNe Forum)	Apr 2012	Malaysia
4	Global Health Security Action Group Laboratory Network (GHSAG-LN)	Nov 2012	Italy (Rome)
5	Global Health Security Action Group Laboratory Network (GHSAG-LN)	Jun 2013	Canada(Tronto)
6	The 4th wet lab workshop of the Global Health Security Action Group Laboratory Network (GHSAG-LN) on diagnostic electron microscopy of pathogens	Oct 2013	Germany(Berlin)

(b) Preparation for a naturally occurring biological threat

	<i>Fund</i>	<i>Year</i>	<i>Budget</i>
1	Japan-ASEAN Integration Fund	2006 2008	30,000,000 USD

(c) Other initiatives

	<i>Project/Workshop</i>	<i>Year</i>	<i>Host</i>
1	The Japan Initiative for Global Research Network on Infectious Disease (J-GRID)	The Second Phase (2010 - 2014)	13 collaborative research centres in Asia, Africa
2	Dual Use Research of Concern (DURC)	Dec 2011	Bethesda, MD (USA)

	<i>Project/Workshop</i>	<i>Year</i>	<i>Host</i>
3	CBRNe Convergence, 5th Annual CBRNe World Conference and Exhibition	Nov 2012	USA
