



**PERMANENT MISSION OF THE REPUBLIC OF MOLDOVA
TO THE UNITED NATIONS OFFICE IN GENEVA**

Nr. 494/R-ONU/270

The Permanent Mission of the Republic of Moldova to the United Nations Office and other International Organizations in Geneva presents its compliments to the Secretariat of the Geneva Branch of the United Nations Office for Disarmament Affairs and has the honour to convey herewith the National Confidence Building Measure Return under the Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons and on their Destruction, covering year 2013.

The Permanent Mission of the Republic of Moldova to the United Nations Office and other International Organizations in Geneva avails itself of this opportunity to renew to the Secretariat of the Geneva Branch of the United Nations Office for Disarmament Affairs the assurances of its highest consideration. *v.m.*

Geneva, 14 April 2014

**Secretariat of the United Nations Office
for Disarmament Affairs**
Geneva



REPUBLIC OF MOLDOVA

Confidence Building Measure Return covering 2013

**Convention on the Prohibition of the Development, Production and
Stockpiling of Bacteriological (Biological) and Toxin Weapons and on
their Destruction**

15th April 2014

**Declaration form on Nothing to Declare or
Nothing New to Declare for use in the Information Exchange**

Measure	Nothing to declare	Nothing new to declare	Year of last declaration if nothing new to declare
A, part 1		X	2013
A, part 2 (i)		X	2013
A, part 2 (ii)		X	2013
A, part 2 (iii)			2013
B (i)			
B (ii)			
C			2013
E		X	2013
F		X	2013
G	X		

Date: **15th April 2014**

State Party to the Convention: **REPUBLIC OF MOLDOVA**

Date of ratification/accession to the Convention:

Moldova joined the BWC on 5 November 2004, which entered into force for our country on 28 January 2005.

National Point of Contact:

Mariana GRAMA, Ministry of Defense of the Republic of Moldova

Report of the Republic of Moldova to the United Nations Department for Disarmament Affairs

Pursuant to the procedural modalities agreed upon in April 1987 at the “Ad Hoc Meeting of Scientific and Technical Experts for STATES Parties to the Convention on the Prohibition of the Development, Production, and Stockpiling of Bacteriological (Biological) and Toxin Weapons and on Their Destruction,” the Republic of Moldova submits the following information under Article V of the Convention:

Confidence Building Measure A, Part 1

Exchange of Data on Research Centres and Laboratories pages 4

Confidence Building Measure A, Part 2

Exchanges of Information on National Biological Defense Research and Development Programs

- (i) Declaration page 5
- (ii) Description pages 6
- (iii) Facilities pages 7-10

Confidence Building Measure B

Exchange of Information on All Outbreaks of Infectious Diseases and Similar Occurrences Caused by Toxins pages 11

- (i) Background Information pages 12-13
- (ii) Information on occurrences that seem to deviate from the norm pages 14

Confidence Building Measure C

Encouragement of Publication of Results and Promotion of Use of Knowledge pages 15

Confidence Building Measure E

Declaration of Legislature, Regulations, and Other Measures pages 16

Confidence Building Measure F

Declaration of Past Activities in Offensive and/or Defensive Biological Research Programs pages 17

Confidence Building Measure G

Declaration of Licensed Human Vaccine Production Facilities pages 18

Form A – Part 1

BWC - Confidence Building Measure

Exchange of data on research centres and laboratories

In accordance with the agreement at the Third Review Conference that States Parties provide data on "research centres and laboratories that meet very high national or international safety standards established for handling, for permitted purposes, biological materials that pose a high individual and community risk or specialize in permitted biological activities directly related to the Convention," the Republic of Moldova is providing data on all facilities designated biosafety level 3 (BSL-3) that were operational during 2010. Data on a BSL-3 facility under the Ministry of Agriculture, currently under construction, will be included in future CBM submissions of the Republic of Moldova beginning with the submission covering the year the facility becomes operational.

The Republic of Moldova does not have maximum containment laboratories (BSL-4).
Nothing new to declare than in Confidence Building Measure Return covering 2012 submitted by the Republic of Moldova in year 2013.

Form A, Part 1 (ii)

The highest biosafety level facility on the Republic of Moldova`s territory are:

Biosafety Level 3	Yes	National Center for Public Health, Ministry of Health
Biosafety level 2	Yes	Republican Center for Veterinary Diagnostics, Ministry of Agriculture and Food Industry

Any additional relevant information as appropriate:

Nothing new to declare than in Confidence Building Measure Return covering 2012 submitted by the Republic of Moldova in year 2013, except:

Point 6 referring BSL-3 facility:

- one Biological Safety Cabinet Level -3 (BSC-L3) and three Biological Safety Cabinets Level-2 (BSC-L2) were purchased and installed;
- three autoclaves for the decontamination of contaminated waste material is available.

Republic of Moldova

15th April 2014

Form A – Part 2 (i)

BWC - Confidence Building Measure

**Exchange of information on national biological defence research
and development programmes Declaration**

Are there any national programmes to conduct biological defence research and development within the territory of the State Party, under its jurisdiction or control anywhere? Activities of such programmes would include prophylaxis, studies on pathogenicity and virulence, diagnostic techniques, aerobiology, detection, treatment, toxinology, physical protection, decontamination and other related research.

Yes

If the answer is Yes, complete Form A, part 2 (ii) which will provide a description of each programme.

Republic of Moldova

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Form A – Part 2 (ii)

BWC - Confidence Building Measure

Exchange of information on national biological defence research and development programmes description

State the objectives and funding of the programme and summarize the principal research and development activities conducted in the programme. Areas to be addressed shall include: prophylaxis, studies on pathogenicity and virulence, diagnostic techniques, aerobiology, detection, treatment, toxinology, physical protection, decontamination, and other related research.

Nothing new to declare than in Confidence Building Measure Return covering 2012 submitted by the Republic of Moldova in year 2013.

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Form A – Part 2 (iii)

BWC - Confidence Building Measure

Exchange of information on national biological defence research and development programmes facilities

Nothing new to declare than in the Confidence Building Measure Return covering 2011 submitted by the Republic of Moldova in year 2012, with exception on:

Point 4. The organizational structure of each facility.

(i) Total number of personnel _____ **12** _____

(iii) Division of personnel by category:

Scientists _____ **6** _____

Engineers _____ **0** _____

Technicians _____ **4** _____

Administrative and support staff _____ **2** _____

(iv) List the scientific disciplines represented in the scientific/engineering staff.

Bacteriology

Biology

Molecular biology

(vii) What are the funding levels for the following programme areas:

Research _____ **44,900 USA \$** _____

(IX) Provide a list of publicly-available papers and reports resulting from the work published during the previous 12 months. (To include authors, titles and full references.)

Chapters of monographs (national):

1. Gheorghita Stela, Caterniciuc Natalia. **Lesson 6. Rapid risk assessment in acute public health events.** Compendium „Management of public health risk and emergencies”. Pîslă Mihai, Gheorghita Stela, Caterinciuc Natalia, et.al. MoH Republic of Moldova, State University of Medicine and Pharmacy (SUMPh) “Nicolae Testemitanu”. Chisinau–2013, pp. 59-75. ISBN 978-9975-80-738-8.
2. Gheorghita Stela, Caterniciuc Natalia. **Lesson 8. Damage and need assessment** Compendium „Management of public health risk and emergencies”. Pîslă Mihai, Gheorghita Stela,

- Caterinciuc Natalia, et.al. MoH Republic of Moldova, SUMPh “Nicolae Testemitanu”. Chisinau–2013, pp. 59-75. ISBN 978-9975-80-738-8.
3. Gheorghita Stela. **Lesson 12. International health regulation.** Compendium „Management of public health risk and emergencies”. Pîslă Mihai, Gheorghita Stela, Caterinciuc Natalia, et.al. MoH Republic of Moldova, SUMPh “Nicolae Testemitanu”. Chisinau–2013, pp. 59-75. ISBN 978-9975-80-738-8.
 4. Gheorghita Stela, Caterinciuc Natalia. **Lesson 13. Epidemiology in public health emergencies.** Compendium „Management of public health risk and emergencies”. Pîslă Mihai, Gheorghita Stela, Caterinciuc Natalia, et.al. MoH Republic of Moldova, SUMPh “Nicolae Testemitanu”. Chisinau–2013, pp. 59-75. ISBN 978-9975-80-738-8.
 5. Caterinciuc Natalia, Gheorghita Stela. **Lesson 14. Prevention and control of communicable diseases.** Compendium „Management of public health risk and emergencies”. Pîslă Mihai, Gheorghita Stela, Caterinciuc Natalia, et.al. MoH Republic of Moldova, SUMPh “Nicolae Testemitanu”. Chisinau–2013, pp. 59-75. ISBN 978-9975-80-738-8.
 6. Gheorghita Stela, Gutu Arcadie. **Lesson 15. Principles of outbreak investigation in communicable diseases.** Compendium „Management of public health risk and emergencies”. Pîslă Mihai, Gheorghita Stela, Caterinciuc Natalia, et.al. MoH Republic of Moldova, SUMPh “Nicolae Testemitanu”. Chisinau–2013, pp. 59-75. ISBN 978-9975-80-738-8.
 7. Gheorghita Stela. **Lesson 21. Intentional release of biological agents. Preparednes and response in case of bioterrorism.** Compendium „Management of public health risk and emergencies”. Pîslă Mihai, Gheorghita Stela, Caterinciuc Natalia, et.al. MoH Republic of Moldova, SUMPh “Nicolae Testemitanu”. Chisinau–2013, pp. 59-75. ISBN 978-9975-80-738-8.

Recommendations:

1. Olga Burduniuc, Radu Cojocar, Greta Bălan, Stela Gheorghita, Iurie Roscin. *Detection of extended-spectrum β -lactamase (ESBL) enzyme producing by Enterobacteriaceae.* Recommendation, 2013, 49 pages. ISBN 978-9975-113-84-7.

Guidelines:

1. Olga Burduniuc, Radu Cojocar, Ala Donos, Stela Gheorghita, Iurie Roscin. *Antibioresistance – how can it be prevented?* Guideline for communication and health promotion for health care workers. Chisinau: Print Caro, 2013. 13pages. ISBN 978-9975-56-100-6.

Articles in journals with impact factor:

- *articles in journals with impact factor greater than 3*

1. Etienne Ruppé, Brandusa Lixandru, Radu Cojocar, et.al. *Relative fecale abundance of extended spectrum β - Lactamase producing Escherichia coli strains and their occurrence in urinary tract infections in women.* Antimicrobial agents and chemotherapy 57(9), pp. 4512-4517 (IF: 4,565)

Others articles in the international journals:

1. Natalia Sochircă, Victoria Nisteanu, Larisa Bogdea, Vlad Postolachi, Alina Larion, Natalia Caraman, Vasile Crudu, Vlad Caldari. *Diversity and ecological peculiarities of terrestrial vertebrate fauna of Chisinau city, Republic of Moldova.* Published materials International Scientific Seminar “Muzeul și Cercetarea Științifică”. Craiova, România, 12th– 14th of September 2013, Natural science, 2013, pag. 219-226. ISSN 1454-6914.

Articles in the national journals

- Articles category B:

- 1. Stela Gheorghită. *Information system of communicable disease and public health events surveillance – part of Public Health Surveillance system reform implementation in the Republic of Moldova*. Sănătate publică, economie și managementul în medicină, nr. 1(46) 2013. pp. 65-69. ISSN 1729-8687. <http://bsclupan.asm.md:8080/xmlui/bitstream/handle/123456789/308/12.pdf?sequence=1>.
- 2. Valeriu Chicu, Stela Gheorghita, Ala Gori, Vladimir Ternovoi, Victoria Burlacu. *The diversity of the causative agents of infectious diseases identified in ticks collected in the Republic of Moldova*. Sănătate publică, economie și managementul în medicină, nr. 2(47) 2013. pp. 60-64. ISSN 1729-8687.
- 3. Greta Balan, Olga Burduniuc, Radu Cojocaru, Maria Grumeza. *Antimicrobial resistance of Salmonella spp strains*. Sănătate publică, economie și managementul în medicină, nr. 3(48) 2013. pp. 82-84. ISSN 1729-8687.

Others articles in the national journals:

1. C. Rîmis, O. Sofronie, A. Scutaru. *The etiology of wound infections and antibiotic resistance*. Curierul medical, vol. 56 nr. 5, october 2013, pp. 148-152. ISSN 1857-066.
2. Gr. Balan, O. Burduniuc, E. Ursu, E. Nicoara. *Antibiotic resistance of S. pneumoniae and H.influenzae strains isolated from the patients with community respiratory tract infections*. Curierul medical, vol. 56 nr. 5, october 2013, pp. 152-155. ISSN 1857-066.
3. S. Gheorghitsa, V. Chicu, V. Burlacu, V. Melnic, A. Gutsu, N. Caraman, A. Gori, V. Ternovoi. *Peculiarities of directions and causal agent's distribution of tick-borne in the Republic of Moldova*. Curierul medical, vol. 56 nr. 5, October 2013, pp. 185-188. ISSN 1857-066.

Articles in the international compilations:

1. Caterinciuc N., Gheorghita S., Chicu V. Increase the quality and efficiency of training in public health by using the informational technologies. *Materials of the final conference within the Tempus Project" Masters programs in public health and social services"*, 22-27 September 2013. Chisinau, Republic of Moldova. pp 37-41. ISBN 978-9975-120-10-4.
2. Pisla M., Chicu V. Training of specialists in the field of public health emergencies. *Materials of the final conference within the Tempus Project" Masters programs in public health and social services"*, 22-27 September 2013. Chisinau, Republic of Moldova. pp 152-160. ISBN 978-9975-120-10-4.
3. Rudic V., Balan G., Ulinici M. Some aspects regarding the training of the microbiology specialists in the residency program. *Materials of the final conference within the Tempus Project" Masters programs in public health and social services"*, 22-27 September 2013. Chisinau, Republic of Moldova. pp 164-172. ISBN 978-9975-120-10-4.

Abstracts and posters at congress, conference (national/international)

1. C. Spinu, R. Cojocaru, I. Spinu, V. Eder, P. Scofersta. *Clinical – epidemiological and virological recovery of influenza, IRVA and SARI surveillance system*. 23rd Annual meeting of the society for virology. 6-9 march 2013. Kiel, Germany. pp. 72. http://www.virology-meeting.de/fileadmin/media/2013/gfv/Druckelemente/GfV2013_Programme.pdf
2. **Report**. Stela Gheorghita. *A world united against infectious diseases: Cross-sectorial solutions*. January 28th – february 2nd, 2013, Bangkok, Thailand. pp. 395.

3. Report. Stela Gheorghita. Strengthening of the surveillance system for communicable diseases and public health event. World Health Organization 2013 *Report on a mission 11-15 March 2013*. pp. 33.
4. O. Burduniuc, R. Cojocaru, C. Spînu, S. Gheorghita, I. Roscin. *A diagnostic procedure infections caused by Enterobacteriaceae producing beta-lactamase*. Catalogue "European exhibition of creativity and innovation", Euro Invent, Iași, România 2013. p.105. ISBN: 978-973-703-891-3. <http://www.eudirect.ro/euroinvent/cat/e2013.pdf>
5. R. Cojocaru, C. Spinu, V. Eder, S. Gheorghita, P. Scoferta, I. Spinu, I. Gostev. *Strengthening of the surveillance system for influenza, ARI and SARI in the Republic of Moldova*. VIII Options for the control of influenza Cape Town, South Africa 5-10 september 2013. p. 643 http://optionsviii.controlinfluenza.com/optionsviii/assets/File/Options_VIII_Abstracts_2013.pdf
6. Burlacu Victoria, Gheorghita Stela, Caraman Natalia, Nisteanu Victoria, Larion Alina, Cirlig Tatiana. *Faunistic and ecological peculiarities of small mammal reservoir species in the northern zone of the Republic of Moldova*. Actual problems of protection and sustainable use of the animal world diversity: VII-th International conference of zoologists, 10-12 october, 2013: book of abstract. pp 34-35. ISBN 978-9975-66-361-8. <http://zoology.asm.md/uploads/File/Conferinta%20Internationala%20a%20Zoologilor%202013/Materiale%20conf.pdf>
7. C. Spinu, V. Eder, I. Bahnarel, P. Scoferts, R. Cojocaru, I. Spinu, O. Grama, I. Gostev. *Evaluation of ILI, ARI and SARI surveillance system in the Republic of Moldova in the 2012-2013 season*. Romanian archives of Microbiology and Immunology. Volume 72- Issue 3, July September 2013. Anul Cantacuzino 150 de ani de la nașterea Profesorului Ion Cantacuzino, pp. 183-185. ISSN 1222-3891. Category B+.

Republic of Moldova

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Form B

BWC - Confidence Building Measure

Exchange of Information on Outbreaks of Infectious Diseases and Similar Occurrences Caused by Toxins

Exchange of information on outbreaks of infectious diseases and similar occurrences caused by toxins, and on all such events that seem to deviate from the normal pattern as regards type, development, place, or time of occurrence. The information provided on events that deviate from the norm will include, as soon as it is available, data on the type of disease, approximate area affected, and number of cases.

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Form B(i)

BWC - Confidence Building Measure

Background Information on Outbreaks of Reportable Infectious Diseases

Exchange of information on outbreaks of reportable infectious diseases

Human Diseases (cases)

Disease	Number of cases per year									
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Acute encephalitis	0	0	0	0	0	0	0	0	0	0
Acute poliomyelitis	0	0	0	0	0	0	0	0	0	0
Anthrax	5	0	0	0	1	0	0	0	0	4
Botulism	3	8	7	18	13	4	21	13	5	8
Brucellosis	0	0	0	0	1	0	0	0	0	0
Cholera	0	0	0	0	0	0	0	0	0	0
Glanders	0	0	0	0	0	0	0	0	0	0
Diphtheria ^[1]	0	0	0	0	0	0	0	0	0	0
Ornithosis	0	0	0	0	0	0	0	0	0	0
Food poisoning	0	0	0	0	0	0	0	0	0	0
Leptospirosis	4	0	0	13	17	6	13	5	6	4
Meningitis	87	62	47	51	33	39	47	50	35	28
Plaque	0	0	0	0	0	0	0	0	0	0
Q-fever	4	4	4	2	6	7	5	2	2	0
Shigellosis	1389	1955	1655	1216	744	592	511	256	464	355
Smallpox	0	0	0	0	0	0	0	0	0	0
Tularaemia	0	0	0	0	0	1	0	0	0	0
Typhus abdominals	8	2	1	1	0	0	0	0	0	0
Typhus fever	1	0	0	0	0	0	0	0	0	0
Tuberculosis	3238	3674	3623	3578	3399	3314	3113	3178	3746	3068
Viral encephalitis	0	0	0	0	0	0	0	0	0	0
Viral hemorrhagic fever	0	0	0	0	0	0	0	0	0	0
Yellow fever	0	0	0	0	0	0	0	0	0	0
Viral hepatitis	3576	1623	771	575	379	250	215	166	179	237
<i>Hepatitis A</i>	3031	1109	355	198	101	29	16	4	9	107
<i>Hepatitis B</i>	361	347	269	238	168	124	95	95	62	58
<i>Hepatitis C</i>	103	111	111	101	89	71	80	49	76	49
Other and unknown	0	0	0	0	0	0	0	0	0	0

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Animal Diseases

(cases)

	2006	2007	2008	2009	2010	2011	2012	2013
African swine fever	0	0	0	0	0	0	0	<u>0</u>
Anthrax	2	5	2	1	1	2	1	<u>2</u>
Aujeszky 's disease	1	1	0	0	0	0	0	<u>0</u>
Brucellosis	0	0	0	0	0	0	0	<u>0</u>
Bacillus larvae	0	0	0	0	1	0	1	<u>1</u>
Bratsot	0	1	0	1	0	1	0	<u>0</u>
Coli-bacteriosis	6	4	5	60	45	70	67	<u>42</u>
Contagious Bovine Pleuro-pneumonia	0	0	0	0	0	1	0	
Enzootic Bovine Leukosis	24	32	0	5	38	5	8	<u>8</u>
Epizootic Hemorrhagic Virus Disease	0	0	0	0	0	0	0	<u>0</u>
Epizootic Lymphangitis	0	0	0	0	0	0	0	<u>0</u>
Leptospirosis	0	1	0	0	0	0	0	<u>0</u>
Lumpy Skin Disease	0	0	0	0	0	0	0	<u>0</u>
Newcastle disease	0	0	0	0	0	1	0	<u>0</u>
Malignant Edema	0	1	0	0	0	1	0	<u>0</u>
Pasteurellosis	30	27	12	22	22	27	14	<u>5</u>
Rabies	49	68	45	59	140	66	209	<u>128</u>
Rubella	0	0	0	0	0	0	0	<u>0</u>
Rujetul	2	4	4	4	3	2	4	<u>0</u>
Rinitis atrofica	0	0	0	0	0	0	0	<u>0</u>
Salmonela typhi	6	2	3	43	29	17	0	<u>0</u>
Swine versicular disease	0	0	0	0	0	0	0	<u>0</u>
Teschen disease	0	0	0	0	0	0	0	<u>0</u>
Tularemia	0	0	0	0	0	0	0	<u>0</u>
Tuberculosis (Bovine TB)	1	0	0	0	0	1	0	<u>0</u>

Republic of Moldova

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Form B (ii)

BWC - Confidence Building Measure

**Information on outbreaks of infectious diseases and similar occurrences
that seem to deviate from the normal pattern**

No some outbreaks of infection diseases and similar occurrences that seem to deviate from the normal pattern on **human and animal diseases** were registered during 2013 year on the territory of the Republic of Moldova.

Republic of Moldova

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Form C

BWC - Confidence Building Measure

Encouragement of Publication of Results and Promotion of Use of Knowledge

Encouragement of publication of results of biological research directly related to the Convention, in scientific journals generally available to States parties, as well as promotion of use for permitted purposes of knowledge gained in this research.

All researchers of the Ministry of Health, Ministry of Agriculture and Food Industry, Academy of Science of Moldova are encouraged to publish results in peer-reviewed open literature.

Nothing new to declare than in the Confidence Building Measure Return covering 2012 submitted by the Republic of Moldova in year 2013.

Republic of Moldova

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Form E

BWC - Confidence Building Measure

Declaration of legislation, regulations, and other measures

Declaration of legislation, regulations and other measures:

Relating to	Legislation	Regulations	Other measures ²	Amended since last year
(a) Development, production stockpiling, acquisition or retention of microbial or other biological agents, or toxins, weapons, equipment and means of delivery specified in Article I	Yes	Yes	Yes	Yes
(b) Exports of micro-organisms ³ and toxins	Yes	Yes	Yes	No
(c) Imports of micro-organisms ⁴ and toxins	Yes	Yes	Yes	No
(d) Biosafety ⁴ and biosecurity ⁵	Yes	Yes	Yes	No

Nothing new to declare than in the Confidence Building Measure Return covering 2012 submitted by the Republic of Moldova in year 2013.

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² Including guidelines.

³ Micro-organisms pathogenic to man, animals and plants in accordance with the Convention.

⁴ In accordance with the latest version of the WHO Laboratory Biosafety Manual or equivalent national or international guidance.

⁵ In accordance with the latest version of the WHO Laboratory Biosecurity Guidance or equivalent national or international guidance.

Form F

BWC - Confidence Building Measure

Declaration of past activities in offensive and/or defensive biological research and development programmes

Nothing new to declare than in Confidence Building Measure Return covering 2012 submitted by the Republic of Moldova in year 2013.

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Form G

BWC - Confidence Building Measure

Declaration of Vaccine Production Facilities

Nothing to declare. Currently there are no human vaccines manufactured and licensed in the Republic of Moldova.

Republic of Moldova

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Prepared by the National Point of Contact for BTWC of the Republic of Moldova

Mariana GRAMA