



Climate change



Disasters and conflicts



Ecosystem management



Environmental governance

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Resource efficiency

The Role of UNITAR in the GEF/UNEP GMP2 Project

GMP2 Asia Inception and New POPs Workshop

25 – 27 January 2016

Hanoi, Vietnam

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UNITAR Chemicals and Waste Management Programme



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UNITAR and chemicals

UNITAR's mandate

“To develop capacities to enhance global decision-making and to support country level action for shaping a better future.”

- **Through:** innovative trainings, networks, advising
- **10 programs on:** Chemicals and Waste Management, Climate Change, Decentralized Cooperation, Environmental Governance, Knowledge Systems Innovation, Multilateral Diplomacy, Peacekeeping, Public Finance and Trade, Satellite (UNOSAT)

Chemicals and Waste Management Programme

- **On:** SAICM, GHS, Mercury, Nanotech, PRTR, BRS, Waste Management, GMP



Role of UNITAR in the GMP2

- **Component 1:** Securing conditions for successful project implementation
- **Component 2:** Capacity building and data generation on analysis of core abiotic matrices (air and water)
- **Component 3:** Capacity building and data generation on analysis of core biotic matrices (human milk)
- **Component 4:** Assessment of existing capacities and reinforcement of national POPs monitoring
- **Component 5:** Securing conditions for sustainable POPs monitoring



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Role of UNITAR in the GMP2 (2)

UNITAR's role

- Provide technical and administrative support to UNEP
- Establish the organization of the processes

Scope: GMP2 Africa, Asia and Pacific (as well as GRULAC)

Timeline: first year of the GMP2 projects

Purpose

To ensure a smooth and timely start of the projects



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Role of UNITAR in the GMP2 (3)

- 1. Assist in development of SSFAs** (inception workshops; countries)
- 2. Assist in regional inception workshops**
→ materials and presentations; expert advice
- 2. Assist in the actualization of the POPs laboratory databank**
→ consultant's ToR; questionnaires; expert advice
- 3. Assist expert labs in the planning of their training activities**
- 4. Prepare templates for reporting of air/water sampling**
- 5. Prepare templates for reporting of analytical results**
- 6. Develop an interactive web-based platform for information exchange for countries to report progress; and provide expert advice on the platform**



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Two surveys on training needs



Initial Survey on Laboratory Capacity and Training Needs 1

1 IDENTITY AND GENERAL DESCRIPTION

Name of laboratory:	
Address:	
City / State:	
Country:	Postal Code:
Telephone:	Fax:
E-mail:	
Web Site:	
Contact Person:	

Type of Laboratory					
Public/Governmental	<input type="checkbox"/>	Private	<input type="checkbox"/>	Research Center	<input type="checkbox"/>
Size (in square meters)					
Dedicated to POPs Analysis:			m ²		
Experience with POPs analysis since [starting year, yyyy]:					
Pesticides:	PCB:	PCDD/PCDF:	BFR:	PFOS:	

2 ANALYSES PRESENTLY UNDERTAKEN BY THE LABORATORY

Extraction methods: C = Supercritical fluid (SFE) D = Dilution
 F = Solid phase (SPE) L = Liquid/liquid
 M = Microwave P = Pressurized fluid (PFE)
 S = Soxhlet U = Ultrasonic

Separation: Packed column
 Capillary column (please specify length, type)
 Liquid chromatographic column (HPLC) (please specify)

Detector: ECD LRMS
 MS/MS TOF MS
 HRMS

Matrix type	POP(s)	Extraction methods	Separation	Detector
Abiotic				
Abiotic - air				
Abiotic - water				
Abiotic - other				
Biota				
Biota - human milk				
Biota - other				



Check List¹

Prepared by: [Name], [Institution]

Date the form was filled out:

1 GENERAL

Name of Laboratory:	
Address of Laboratory:	
E-mail:	
Phone:	
WebPage:	
Contact person:	

2 TECHNICAL PART - EXISTING CAPACITY TO ANALYZE POPs

2.1 Description of the Laboratory:

2.1.1 [Name and address of the institution hosting the Laboratory](#)

2.1.2 [Main activity of the Laboratory](#)

2.1.3 [Economic resources/main incomes of the laboratory](#)

¹ This check list has been prepared by the expert back-up laboratories as a self-assessment of laboratories participating in the UNEP/GEF projects to support the implementation of the Global Monitoring Plan. The information provided will assist to develop the programme for the hands-on training in the developing country laboratory. It is intended to obtain a better idea of the actual working conditions of the POPs laboratories and what would be necessary to improve their contribution to a sustainable POPs monitoring. The information therein adds to the data already contained in the UNEP POPs Laboratory Databank.



One survey for Lab Database



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POPs Laboratory Databank (27 POPs)

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POPs Laboratory Databank



Questionnaire for POPs Laboratories

In 2005 and within the framework of the UNEP/GEF project "Assessment of Existing Capacity and Capacity Building Needs to Analyse POPs in Developing Countries", UNEP Chemicals has established a databank of laboratories capable to analyze persistent organic pollutants (POPs). Since that the databank has been updated and is being maintained by the Division of Technology, Industry and Economics (DTIE) and hosted by the clearinghouse mechanism of the Secretariat of the Basel, Rotterdam and Stockholm Conventions. The databank is searchable and web-accessible from this WebPage <http://212.203.125.7/databank/Laboratory/Search.aspx>.

The POPs Laboratory Databank has shown to be a useful source of information for a number of stakeholders including laboratories offering their services to clients, governments and others to identify laboratories according to their needs. In addition, the databank is a tool for quality assurance/quality control (QA/QC) since it provides information as to the performance of laboratories in interlaboratory assessments according to POP and matrix.

The POPs Laboratory Databank is continuously expanded as new POPs are listed in annexes A, B, or C of the Stockholm Convention. Guidance is being continuously developed for the analysis of these newly added substances, which also includes reconsideration of the recommended core matrices for analysis. In this way, there is a close linkage between the POPs Laboratory Databank and the expert groups of the Global Monitoring Plan under article 16 of the Convention.

The information contained in the databank also serves the present and future UNEP/GEF projects on POPs analysis and Global Monitoring Plan as well as the Bi-ennial Global Interlaboratory Assessments on Persistent Organic Pollutants (for further information, see <http://www.unep.org/chemicalsandwaste/POPs/AnalysisandMonitoring/tabid/1059788/Default.aspx>).

In order to provide the best service to those interested in POPs analysis, the information on the existing capacity of POPs laboratories needs to be updated. We have developed this questionnaire to collect specific information from POPs laboratories and kindly ask managers of laboratories that perform POPs analysis to fill out the questionnaire and send it back to (preferentially per e-mail) to the Science and Risk Assessment Team at science@unep.org.

We thank you very much for your cooperation and look forward to your input.

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POPs Laboratory Databank (27 POPs)

1 IDENTIFY AND GENERAL DESCRIPTION

Name of laboratory:	
Address:	
City / State:	
Country:	Postal Code:
Telephone:	Fax:
E-mail:	
Web Site:	
Contact Person:	

Type of Laboratory	
Public/Governmental <input type="checkbox"/>	Private <input type="checkbox"/> Research Center <input type="checkbox"/>
Function of the Laboratory	
Size (in square meters)	
Total Laboratory:	m ²
Dedicated to POPs Analysis:	m ²
Does the laboratory offer services to national and international customers? <input type="checkbox"/> Yes/ <input type="checkbox"/> No	
How long has your laboratory been operational [starting year, yyyy]:	
Experience with POPs analysis since [starting year, yyyy]:	
Pesticides: ;	PCB: ; PCDD/PCDF: ; BFR: ; PFAS: ;

2 PERSONAL ANALYZING POPs

Professionals [Number of staff]	Ph.D: ; M.Sc.: ; Technicians: ;
Others (Administration, temporary assistants, etc.) [Number of staff]:	

3 ACTIVITIES, EQUIPMENT, AND QUALIFICATIONS

Table 1: Indicative list of major clients

The laboratory offers services to third parties?	<input type="checkbox"/> Yes / <input type="checkbox"/> No		
	Public/Governmental	Private	Research Center
Principal clients (%)			





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Thank you!

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