



















# The Role of UNITAR in the GMP2 Project

**GMP2 African Region - Inception Workshop** 

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UNITAR

Chemicals and Waste Management Programme





















### **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, PRTRs, BRS Conventions, Waste Management, GMP















### **UNITAR's role:**



Provide technical expertise and administrative support to UNEP during implementation of the GMP2 projects



### Scope:



GMP2 Africa, Asia and Pacific Regions (and GRULAC)























### **Activities Supported by UNITAR**

- 1. Regional inception workshops
- Development of workplans and budgets for national activities → SSFAs
- 3. Develop questionnaire to identify national laboratories' capacity and training needs
- 4. Assist expert laboratories in preparation of trainings





















### **Activities Supported by UNITAR**

- 5. Updating the POPs laboratory databank
- Prepare templates for reporting of air/water sampling
- Prepare templates for reporting of analytical results by expert labs
- 8. Maintain a project website and develop an interactive web-based platform for information exchange









## **Surveys on Training Needs**

Initial Survey on Laboratory Capacity and Training Needs









### 1 IDENTITY AND GENERAL DESCRIPTION

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

Type of Laboratory						
Public/Governmental	Priv	/ate		Research Ce	enter	
Size (in square meters)						
Dedicated to POPs Analysis:			m²			
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:

MS/MS

TOF MS

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



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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.









### 1











# **Survey for Laboratory Database**

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 webaccessible from this WebPage <a href="https://liven.2031.125.2/databank/laboratory/Search.aspx">https://liven.2031.125.2/databank/laboratory/Search.aspx</a>.

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 <a href="http://www.unep.org/chemicalsandwaste/POPs/AnalysisandMonitoring/tabid/1059788/Defau ts.aspx">http://www.unep.org/chemicalsandwaste/POPs/AnalysisandMonitoring/tabid/1059788/Defau ts.aspx</a> ).

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 <a href="science@unep.org">science@unep.org</a>.

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

1 IDENTITY AND GENERAL DESCRIPTION

POPs Laboratory Databank (27 POPs)

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

Type of Laboratory					
Public/Governmental	Private	Research C	Research Center		
Function of the Laboratory					
Size (in square meters)					
Total Laboratory:		m²			
Dedicated to POPs Analysis: m²					
Does the laboratory offer services to	national and internation	onal customers?	Yes/ No		
How long has your laboratory been	operational (starting ye	ar, 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?	☐ Yes / ☐ No				
	Public/Governmental	Private	Research Center		
Principal clients (%)					

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# Thank you!

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