

Chapter 12: Resources Available and Needed For Chemicals (including POPs) Management

12.1 Available and necessary resources at government organizations

12.2 Indispensable resources at government organizations to assume responsibility of the chemical substance management



The main aim of the chapter is to provide an overview of resource availability and resource needs within the national government. Table 12.A should address the existing resources available within government ministries, agencies and other institutions specifically to address management of chemicals.

Table 12.B addresses the resources estimated to be needed by government ministries, agencies and other institutions in order to fulfill their responsibilities for chemicals management.

The ministries/agencies listed in the first column of each Table are provided as examples. **The tables should be adapted** to include the appropriate Ministries/Agencies in the country.

12.1 Resources Available and Needed in Government Ministries/Institutions

Table 12.A: Resources Available in Government Ministries/Institutions

Ministry / Agency Concerned	Number of Professional Staff Involved	Type of Expertise Available	Financial Resources Available (per year)
Environment		National and International Expertise	
Health			
Agriculture			
Labour			
Trade / Commerce			

Industry	A- general Organization for Industrial: -Technical and engineers are 30 Administraterators 10 -Total are 40 B-Ministry of Industry – Environmental Department: - 10 personal D-industrial observation and control: -45 personal E-Organization for Standardization and quality control - 20 personal	National Expertise	-
Finance			
Transport			
Interior / Civil Defense			
Justice			
Customs			
Foreign Affairs	Four	Follow-up of multilateral environmental agreements	-
Other			

List of the available institutes considered as an available resources across the national level:

1. Ministry of State for Scientific Research:

1. Academy of Scientific Research and Technology
2. National Research Center
3. Mubarak City for Scientific Research & Technological Applications
4. Genetic Engineering and Biotechnology Research Institute
5. Informatics Research Institute
6. National Institute for Oceanography & Fisheries
7. Petroleum Research Institute

8. Electronics Research Center
9. Research Institute for Ophthalmology
10. Theodore Bilharz Research Institute
11. National Research Institute for Astronomy & Geophysics
12. National Institute for Standards
13. National Institute for Remote Sensing & Space Science
14. Central Metallurgical Research & Development Institute
15. Technical & Technological Consultancies, Studies & Research Fund

2. Ministry agriculture & Land Reclamation:

Agriculture Research Center

1. Horticulture Research Institute
2. Plant Protection Research Institute
3. Plant Pathology Research Institute
4. Field Crops Research Institute
5. Soil & Water Research Institute
6. Animal Production Research Institute
7. Animal Health Research Institute
8. Veterinary Serum & Vaccine Research Institute
9. Animal Reproduction Research Institute
10. Agricultural Extension & Rural Development Research Institute
11. Sugar Crops Research Institute
12. Food Technology Research Institute
13. Agriculture Economics Research Institute
14. Cotton Research Institute
15. Agriculture Engineerin2 Research Institute
16. Agriculture Genetics Engineering Research Institute
17. Central Agriculture Pesticides Laboratory
18. Central Laboratory for Design & Statistical Analyses
19. Central Laboratory for Food & Feed
20. Central Laboratory for Agriculture Expert Systems
21. Central Laboratory for Development & Research of Date Palms
22. Central Administration for Experimental & Research Stations
23. Central Laboratory for Alkaline & Saline Soils
24. Central Laboratory for Agriculture Research

3. Ministry of Irrigation & Water Resources:

The National Center for Water Research.

- Water Management and Irrigation Systems Research Institute
- Canal Maintenance Research Institute
- Drainage Research Institute

- Research Institute for Ground Water
- Nile Research Institute
- Hydraulic Research Institute
- Survey Research Institute
- Mechanical and Electrical Research Institute
- Research Institute for Coast Protection
- Constructure Research Institute
- Environment & Climate Research Institute

4. Ministry of Health & Population:

1. National Organization for Drug Control & Research
2. Dental Research Center
3. Tropical Diseases Research Institute
4. Diabetes Institute
5. Nutrition Institute
6. Research Institute of Medical Entomology
7. Institute for the Deaf & Dumb
8. Field & Applied Research Institute
9. Cairo Demographic Center
10. Institute for Environmental Monitoring and Occupational Health Safety

5. Ministry of Industry & Technological Development:

1. Tebbin Institute for Metallurgical Studies
2. Egyptian Geological Survey & Mining Authority
3. Administration of Chemistry
4. Egyptian Organization for Standardization & Quality Control

6. Ministry of Electricity & Power:

1. Egyptian Atomic Energy Authority
2. Nuclear Materials Authority
3. The Egyptian Renewable Energy Development Organization
4. Electricity Authority of Egypt - High Voltage Research Center

7. Ministry of Housing, Utilities and Urban Communities:

1. Housing, Building and Planning Research Center
2. National Organization for Potable Water & Sewage
3. Organization for Research & Reconstruction Studies

8. Ministry of Transportation:

1. National Institute of Transport
2. Research & Consultancies Center for Marine Transportation Sector.
3. The National Authority for Roads & Bridges

9. Ministry of Civil Aviation:

1. The Meteorological Authority

10. Ministry of Petroleum

1. Ghamra Research Center - Misr Petroleum Company - EGPC
2. ENPPI
3. PETROJET
4. Organization for Energy Conservation & Planning

11. Ministry of Planning

Institute of National Planning

12. Ministry of Manpower and Immigration

National Center for Occupational Safety & Health

13. Ministry of Interior

Police Research Center

Police Academy

14. Ministry of Culture

Research & Maintenance of Monuments Center

15. Ministry of Social Affairs

The National Center for Social & Criminal Studies

16. Ministry of Justice

Administration of Forensic Medicine

17. Suez Canal Authority

Department of Planning, Research & Studies.

12.2 Resources Needed by Government Institutions to Fulfill Responsibilities related to Chemicals Management

Table 12.B: Resources Needed by Government Institutions to Fulfill Responsibilities Related to Chemicals Management

Ministry / Agency Concerned	Number / Type of Professional Staff Needed	Training Requirements
Environment		
Health		
Agriculture		
Labour		
Trade/Commerce		
Industry	General organization for Industry: Require 30 higher education staff (engineers- agricultural-	- Hazardous substances and waste managements and safe disposal courses. -Temporary storage for

	scientific – environmental scientific)	hazardous substances and waste course. -Courses on BEP in field of hazardous chemical especially POPs chemicals. -Courses on BAT for minimization of hazardous emissions -Cleaner Production. -Courses about monitoring and inventories of POPs – possible final safe disposal of POPs.
Finance		
Transport		
Interior/Civil Defense		
Justice		
Customs		
Foreign Affairs		
Other		

Egypt has conducted several research work in the field of prevention and elimination of POPs chemicals and the availability to use more safe alternative chemicals less dangerous.

REFERANCES:

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4. The Statistical Year Book 1995-2002, June 2003.