



Mercury Waste Project Final Workshop 21-23 June 2010, Scotland

Activities under UNEP's Mercury Waste Project in Cambodia

Prepared by: *Mr. SARUN Sambo,*

*Project Coordinator and Chief of Solid Waste and
Hazardous Substance Management Office ,
Department of Environmental Pollution Control,
Ministry of Environment*



Contents

1. Activities under UNEP's Mercury Waste Project
2. Mercury Waste Management Action Plan
3. Technical Guideline on Environmentally Sound Management of Mercury Wastes
4. Challenges
5. Conclusion and Recommendation



1. Activities under UNEP's Hg-Waste Project

- ❖ March 2009: “Regional Inception Workshop for launching Mercury Waste Project” was held in Siem Reap Province, Cambodia. Participated countries were from Burkina Faso, Cambodia, Chile, Pakistan and the Philippines,
- ❖ April 2009: Cambodia Hg-waste Project was started





1. UNEP's Hg-Waste Project, cont.

- ❖ June 2009: Organized a “National Inception Workshop” (30 June to 01 July) to gather information and indentify priority issues related to mercury wastes management for developing a “National Action plan and technical guideline on ESM of mercury and mercury containing wastes,
 - 35 participants from relevant entities participated in this workshop (central government (14 persons), provincial departments (17 persons), academia (01 person) and NGOs (03 persons))



1. UNEP's Hg-Waste Project, cont.



Pictures showed workshop's activities





1. UNEP's Hg-Waste Project, cont.

- ❖ September 2009 to January 2010:
 - Development of Action Plan and Technical Guideline for Hg-wastes management,
 - Preparation for Hg-sampling activities,
- ❖ January 2010: Hg-samplings undertaken
 - 60 samples were taken from different sites as following:
 - ✓ Small scale gold mining areas in Ratanakiri and Kratie provinces: total 29 samples were collected (biota: 23 samples - nails and hairs, non-biota: 6 samples – 3 soil samples from ore and 3 samples from tailing sludge,



1. UNEP's Hg-Waste Project, cont.

- 60 samples were taken from different sites as following:
 - ✓ Sewage system in Phnom Penh city: 12 samples
 - ✓ Hospitals: 7 samples
 - ✓ Dental clinics: 6 samples from 2 dental clinics
 - ✓ Dump sites: 6 samples from old and new dumpsites



1. UNEP's Hg-Waste Project, cont.

- ❖ June 2010: Conducted consultation workshop to review and adopt Action Plan and Technical Guideline for Hg-waste management,
 - 35 participants from relevant entities participated in this workshop (central government (15 persons), provincial departments (16 persons), academia (01 person) and NGOs (03 persons))



Sampling activities





Sampling activities





1. UNEP's Hg-Waste Project, cont.

➤ Activities of the consultation workshop: 10-11 June 2010





2. Hg-wastes management Action Plan

- ❖ Structure of the action plan:
 - 1. Executive summary
 - 2. Introduction and background
 - ✓ Introduction
 - ✓ Background
 - 3. National Contexts and overview
 - ✓ National geographic consideration
 - ✓ Legal framework
 - ✓ Aspects for Mercury waste management
 - ✓ Management approach
 - ✓ Program items



2. Hg-wastes management Action Plan, Cont.

❖ Structure of the action plan: cont...

➤ 4. Priority goals and objectives

- ✓ Goal and objectives
- ✓ Key components of the action plan

➤ 5. Proposed action plan for 2011-2015

- ✓ Component 1: Hg-management in processes & products
- ✓ Component 2: Hg-waste management approaches
- ✓ Component 3: Research, monitoring, modelling, assessment & inventories
- ✓ Component 4: Communication & awareness raising



2. Hg-wastes management Action Plan, Cont.

- ❖ Structure of the action plan: cont...
 - 5. Proposed action plan for 2011-2015, cont...
 - ✓ Component 5: Implementation & compliance
 - 6. Requirement to achieve goals and objectives of the action plan
 - ✓ Requirement resources
 - ✓ Cooperative partner
 - ✓ Development partner
 - ✓ Time frame for implementing the action plan
 - 7. Evaluation



3. Technical guideline on ESM of Hg-wastes

❖ Structure of guideline:

- 1. Introduction
- 2. Definition of terms
- 3. Overview of mercury waste management
 - ✓ Policy issues on mercury waste management
 - ✓ Mercury waste management mechanism
- 4. Guideline on best environmental practices for mercury waste management
 - ✓ Management of Lamp wastes
 - ✓ Management of mercury waste from dental clinics
 - ✓ Management of small spill of mercury



3. Technical guideline on ESM of Hg-wastes, cont.

❖ Structure of guideline:

- 4. Guideline on best environmental practices for mercury waste management, cont...
 - ✓ Mercury waste prevention and minimization
 - ✓ Monitoring of mercury waste disposal sites
- **Appendices**
 - ✓ Hazardous wastes label for mercury containing wastes
 - ✓ Placard for mercury containing wastes



4. Challenges

- ❖ Legal instruments as well as guideline on ESM of Hg waste management is insufficiencies,
- ❖ Responsibility and cooperation of concerning institutions related to Hg waste management do not identified or mandated yet,
- ❖ Implementation plan and guideline on Mercury waste management are still inadequate,
- ❖ Capacity building of project team is very limited for implementation the Hg waste project in term of development action plan and guideline on ESM of Hg and Hg containing wastes



4. Challenges, cont.

- ❖ Public awareness on Hg wastes and its risk to human health the environment is absent, resulting in dumping of Hg-containing wastes without consideration,
- ❖ Resources (technical and financial) for implementation of existing or new initiatives related to Hg and Hg wastes management is limited,



5. Conclusion and Recommendations

- ❖ Need strengthening capacity of officers for effectively implementing Hg-waste management instruments (legal, action plan and guideline),
- ❖ Need assistance from development partners for enhancing the implementation of Hg-wastes management initiatives,
- ❖ Need demonstration activities for ESM of Hg-waste management in dental care sector or consumer products (Hg-based lamps): Pilot project on the implementation of technical guideline on Hg-waste management,



**Thank you for your
kind attention!**