



DDT Disposal Component of the Africa ChemObs Project in Ethiopia

Training in inventory taking proceeding Adama, Ethiopia



17 to 21 December 2018

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1. Introduction

Under the framework of the GEF #9080 project ‘Integrated Health and Environment Observatories and Legal and Institutional Strengthening for the Sound Management of Chemicals in Africa (African ChemObs)’ a number of initiatives will contribute to the improved health and environment through strengthening institutions, and implementing priority chemicals and waste related interventions. A component of this project is the safeguarding and disposal of approximately 1400 tons of the organochlorine pesticide, DDT from 460 stores which is currently stored in Ethiopia, at stores across the country, with no in-country disposal options.

Inventory is the first step in addressing the disposal of obsolete chemicals in an environmentally sound manner. To create knowledgeable experts in this regard inventory training was held from 17 to 21 December 2018 in Adama town, Ethiopia. Participants were selected from both the federal institutions, regional environment and health offices as well as from pesticide processing company representatives. In total 58 participants (see list of participants in annex 5.3). were present during the training days. Four days of classroom training, discussions and presentations (inventory process, hazards, health and safety risks, etc.) were followed by one intensive field visit to Adami Tulu Pesticide Processing Share Company, where the gained theoretical knowledge was put in practice. The inventory training was carried out according to the standard inventory training as conducted by the Food and Agriculture Organization (FAO) of the United Nations. Kobo application for the DDT and standard FAO field inventory forms (PSMS) for non-DDT waste were used in the field. To test the level of the participants, evaluation was made before and after the training (see the evaluation result in Annex 5.6).

The Project Management Unit (PMU) was discussed with the Adami Tulu Pesticide Processing Share Company General manager about the possibility of using the factory store to collect and repackage the rest of Ethiopia obsolete DDT and ownership of DDT accumulated in the company stores. However, the manager of the company expressed his doubt about the willingness of the nearby community to accept such type of waste from the rest of Ethiopia. The general manager has proposed EFCCC to write an official request to the

company. On the ownership of the obsolete DDT accumulated in the company, the property is belongs to the MOH, the team has agreed that the company has to start a discussion with the MOH how to void the DDT based on the government property administration procedure. Moreover, the team has also underlined EFCCC to notify to the MOH to take action on it. The General manager has expressed his willingness to provide Forklift for the Adama and Adami Tulu DDT repackaging activities.

2. Welcoming Address

The opening ceremony of the training commenced with a brief welcome speech made by Mr. Mehary Wondmagen of EFCCC. Mr. Mehari acknowledged the presence of ChemObs project coordinator Mr. Thabo Moraba from the Africa Institute, UNE Consultants Mr. Russell Cobban and Mr. Patrick Chabeda. Following the welcoming remark, the participants of the training then introduced themselves in turn.

3. Highlights of the Papers Presented

Following the welcome remark, deliberations of the training continued with presentation of papers. The papers presented to training participants are summarized below and see for more detailed in annex 5.6

Mr. Russell, UNE Consultant, presented the objective of the training, benefits of global treaties related to chemicals (Basel, Rotterdam and Stockholm Conventions), technical basses for the training (FAO Environmental Management Tool Kit Volumes 1 – 4), project implementation components (Inventory, Procurement, Safeguarding, Disposal, Prevention and Sustainability), Reasons for reliable inventory data and Inventory software Kobo collect application.

Mr. Shimelis Hassen, National technical expert, presented health and environmental impacts, different hazard types, the main hazards posed by pesticides, the most common hazard, from pesticides particularly from DDT, measuring toxicity, the principles of LD 50 and LC 50, UN classification of hazards, exposures routes and workplace exposure, the use of PPEs, risk assessment methods for inventory and PSMS data collection techniques.

Mr. Mohammed Ali, Team leader for the DDT disposal component of CHEMOBS project, presented DDT inventory logistics arrangement for the rest of Ethiopia this includes start and finish date of the inventory, team arrangement, transport plan and Adama & AdamiTulu Safeguarding activities.

4. Participant Views and Training Closing

Participants of the training were raised questions for those subjects not clear while delivering the training. The presenters were clarified for those questions raised by the trainees. Finally, the training participants were agreed on to engaged on the DDT inventory task. However, participants stressed their concern about the low level of government DSA. 300 birr per day is not sufficient to cover all expenses (accommodation and meals). The training was closed by Mr. Girma Gemhu of EFCCC at 12:30 pm by thanking all participants for their input and unreserved contribution.

5. Annexes

5.1 Participants photo



Photo 1. Trinees in the lecture room



Photo 2. Trinees during practical exercise at Adami Tulu DDT store



Photo 3. Trinees during practical exercise at Adami Tulu DDT store

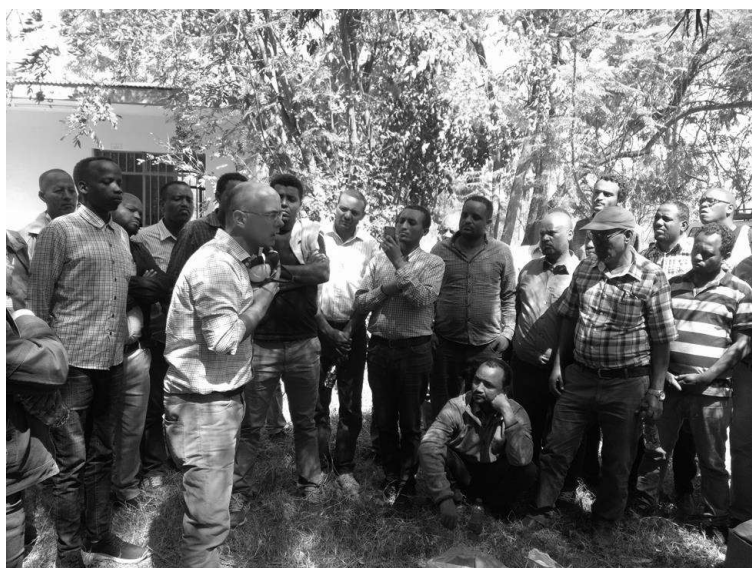


Photo 4. Trinees during practical exercise at Adami Tulu DDT store

5.2. UNEP ChemObs: Ethiopia DDT Inventory and Safeguarding – National Training program

Date	Day	Venue hire	Activities	Notes	Venue
17/12	Mon	1	Day 1 - Classroom	ETHIOPIAN TEAM	Executive Hotel, Adama
	am		Objectives & technical Introduction		
	pm		Hazards and Risks basic principals		
	pm		Health and Environmental Impacts	S _P and F _E	
	am		Risk assessment for inventory		
18/12	Tues	1	Day 2 – Class room	ETHIOPIAN TEAM	Executive Hotel, Adama
	am		Inventory process, forms and database		
	pm		Inventory development	Use data from Ethiopia	
19/12	Wed	1	Day 3 - Class room	ETHIOPIAN TEAM	Executive Hotel, Adama
	am		Inventory development		
	pm		Inventory development		
20/12	Thurs		Day 4 –Adami Tulu Store Inventory practical	ETHIOPIAN TEAM	Adami Tullu store
	am		Inventory training on-site		
	pm		Inventory training on-site		
21/12	Fri		Day 5 –Class room	ETHIOPIAN TEAM	Executive Hotel, Adama
	am		Adami Tulu Inventory / baseline data collection for EMP/HSE plan		
	pm		Wrap-up and next steps		

5.3 Training Participant List

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5.4 Participant Evaluation Questionnaire

FULL NAME: -----

Training workshop about Safeguarding and Disposal Strategies (Addis Ababa, Ethiopia 17th-22nd December)

EVALUATION

1. General
 - 1.1. What is inventory?
 - 1.2. Give the main objective of the Stockholm Convention
 - 1.3. What is the main objective of the Basel Convention?
 - 1.4. Why is an inventory important?
2. Health impacts and the environment:
 - 2.1. Define RISK and HAZARD
 - 2.2. Define the LD50 of a pesticide and state what unit is generally used to quantify it:
 - 2.3. How is the acute toxicity of a substance classified?
 - 2.4. Is DDT 75% acutely toxic?
 - 2.5. How is DDT 75% classified for transport?
3. Inventory
 - 3.1. How many people do you need for an inventory?
 - 3.2. List 5 items that you need to take with you
 - 3.3. What do you need to do before you get to the store?
 - 3.4. How many people go inside the store?
 - 3.5. Before you go inside the store, what do you need to do?
 - 3.6. What do you do with any waste / contaminated items that you make?
 - 3.7. How are you going to make sure that you don't bring any contamination with you outside the store? (list 3 things)
 - 3.8. What is a hazard?
 - 3.9. What is a risk?
 - 3.10. What are 5 risks you will encounter during inventory

5.5 Participants Evaluation Result

Parameter	Pre-training test results	Post-training test results
Minimum result	24	44
Maximum result	70	86
Average result	39	66
Percentage of trainees scored less than 50%	84	4
Percentage of trainees scored greater than 60%	4	71

5.6 Papers presented