

Introduction to Work package B2.1-Development of a scientific evaluation system for registration of chemical pesticides and the workshop on human health risk assessment

Alemayehu Woldeamanual : MoA ,PRRP coordinator

joint collaborative programme on pesticide registration and post-registration



MoA



Towards a sustainable use of pesticides in Africa

Contents

- Activities WP B2.1 Human Health and residues
- Activities of this workshop
- Objectives
- Deliverables
- Programme of the week

PRRP-Ethiop



ALTEERRA



WP B2.1 Development of a scientific evaluation system for the registration of pesticides - Evaluation of dossiers of chemical pesticides

1. **Efficacy** - started Jan 2011 (training on efficacy testing and developed guideline will be given 7-11 May/2012)
2. **Environment** – started May 2011 (define draft environmental criteria – 4-6 June/2012)
3. **Human health and residues** – started now (workshop on MRL and food basket will be held 4-6 June/2012)

Scientific evaluation system for human health and residue aspects – Planned activities 2011- 2013

Activity 1

Development of human health hazard and risk assessment to be used for the evaluation of dossiers

Sub-activities

A. General workshop on human health hazard and risk assessment. In this workshop the following issues will be raised:

- General training on models to estimate exposure of local populations to pesticide residues through food and drinks after registration use
- General training on human risk assessment methods for occupational health.
- General training on international criteria
- Discussion on which methodology to choose for Ethiopia (operator exposure and consumer exposure) taking into consideration its relevance to the local situation.

Scientific evaluation system for human health and residue aspects – Planned activities 2012- 2013

B. Adopt an existing tool or create a new tool / model for exposure assessment that can be used to estimate exposure of local populations and operator exposure to pesticide residues through food and drinks after registration use, taking into consideration its relevance to the local situation.

Scientific evaluation system for human health and residue aspects – Planned activities 2011- 2013

- D. Development of standard diet for Ethiopia (food basket).
- Training on developing food basket for Ethiopia, calculation of ADI for different pesticides,
 - Develop standard diet (food basket) for Ethiopia
- E. Development of an evaluation procedure for decision making about the acceptability (or not) of a submitted pesticide based on the criteria set (taking labelling into account). Such procedure includes:
- models to estimate exposure of local population to pesticide residues through food and drinks after its registered use (as created in sub-activity 2),
 - risk assessment methods for occupational health.

Scientific evaluation system for human health and residue aspects – Planned activities 2011- 2013

Activity 2

Development of new data requirements (if necessary).

Sub-activities:

- Update the existing SEARCH based and associated guidelines specifying the level of detail in which data have to be submitted, the data format (units, end points) and confidentiality

Scientific evaluation system for human health and residue aspects – Planned activities 2011- 2013

Activity 3

Development of nationally applicable criteria for the acceptability of pesticides in Ethiopia. The criteria include human toxicity; and labelling and packaging among others.

Sub-activities:

- A. Define draft national criteria in relation to chemical pesticide registration for Ethiopia (the overview of international criteria as given in activity 1 can be used as basis for this sub-activity).
- B. Discuss the draft criteria with all stakeholders including Ministry of Health, Environmental Protection authority, Institute of Agricultural Research and international registration experts through a workshop
- C. Develop national applicable criteria by incorporating all relevant inputs of the workshop.
- D. Formalize the criteria as part of directive or regulation

Scientific evaluation system for human health and residue aspects – Planned activities 2011- 2013

Activity 4

Development of guideline on how to assess the quality of the data submitted by the applicant (data related to human health risk assessment). This activity will be done together with activity 4 of the Section related to Environmental issues

Sub-activities:

- A. Workshop on the quality of the data submitted for the registration
- B. Develop guideline on how to assess the quality of the data.

Scientific evaluation system for human health and residue aspects – Planned activities 2011-2013

Activity 5

Capacity building on human resources to get a qualified team with relevant skills to evaluate the dossier.

Sub-activities:

- A. Develop a manual on evaluation of chemical pesticide dossier including all issues as mentioned in the activities 1 to 4 for human health hazard and/or risk assessment.
- B. Training on the tool / model for exposure assessment that can be used to estimate exposure of local populations to pesticide residues through food and drinks after registration.
- C. On the job training on chemical evaluation for registration experts drawn from stakeholders institution

Development of Maximum Residue levels (MRLS)

Activity 6

General workshop on MRL's

Sub-activities

- A. General workshop on MRL's
- B. General training on international 'criteria/methodologies/MRLs', EU pesticide residue level harmonization and MRL development.
- C. Discussion and decision making on which existing MRL's (Codex MRL's) will be used and which MRL's need to be developed (export crops: in cases of crops which do not have any internationally set MRL; local MRL's for intensified crops with high use of pesticides and for native crops).

Development of Maximum Residue levels (MRLS)

Activity 7

Allocation of appropriate fields for pesticide residue testing. For selection of the laboratory see WP C1 (Development of reference laboratory).

Sub-activities

A. Allocation of appropriate fields for pesticide residue testing.

Development of Maximum Residue levels (MRLS)

Activity 8

Human capacity building on MRL development

Sub-activities

- A. Training/on the job training on trial execution
- B. Training/on the job training on modern pesticide residue analytical techniques used to determine the residue levels on crops.
- C. Develop a procedure manual on pesticide residue analytical techniques and MRL setting.

Objectives this workshop

- Obtaining insight in existing international methods and tools to estimate exposure, hazards and risks of pesticides for operators/workers. Obtaining insight in existing international criteria.
- Selection of appropriate methodology to evaluate local occupational exposure after registered use.
- Start the development of nationally applicable criteria for the acceptability of pesticides in Ethiopia. The criteria include human toxicity; and labeling and packaging among others. (a
- Set-up of chapter in evaluation manual for APHRD.

Deliverables of the workshop

- Stakeholders and APHRD staff trained on human risk assessment methods for occupational health.
- Stakeholders and APHRD staff trained on international methodologies and criteria.
- Agreement on the methodology and exposure assessment tool(s) that will be used and worked out for Ethiopia (based upon international available methodologies).
- Overview of possible national criteria for acceptability of chemical pesticides. Inventory of gaps and needed additional work.
- Set-up and partly writing of draft chapter in the manual on evaluation of chemical pesticide dossier on selected risk assessment methods for operators and workers and related criteria. Agreement on writing and other near-future activities. The methods include operators and workers hazards and risks, assessment methods as well as suitable exposure estimation methods

Programme of the week (see the given programme)

Programme – day by day - overall

- Start at 9:00
- Tea break 10:30-11:00
- Lunch 12:30-14:00
- Tea break 15:30-16:00
- End day at 17:30



Thank you!



MoA



ALTERRA