



CAMEROON BIOSECURITY PROJECT

Development and Institution of a National Monitoring and Control System (Framework) for Living Modified Organisms (LMOs) and Invasive Alien Species (IAS)

COURSE NOTES ON INSPECTION SYSTEMS AND METHODS INCLUDING TREATMENTS FOR CAMEROON

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Under the Supervision of:

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&

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ACRONYMS AND ABBREVIATIONS

ACRONYM/ ABBREVIATION	FULL NAME
<i>ANOR</i>	Agency for Norms and Quality in Cameroon
CBD	Convention on Biological Diversity
CBP	Cameroon Biosecurity Project
CPB	Cartagena Protocol on Biosafety
CPAC	Comité Inter Etats des Pesticides d’Afrique Centrale
CPI	Conseil Phytosanitaire InterAfricain
FAO	Food and Agriculture Organization
GISP	Global Invasive Species Programme
IAS	Invasive Alien Species
IMO	International Maritime Organisation
IRAD	Institute of Agricultural Research for Development
IPPC	International Plant Protection Convention
IUCN	International Union for Conservation of Nature
LANAVET	National Veterinary Laboratory
LMOs	Living Modified Organisms
MINADER	Ministry of Agriculture and Rural Development
MINEE	Ministry of Water Resources and Energy
MINEPDED	Ministry of Environment, Protection of Nature and Sustainable Development
MINPOSTEL	Ministry of Post and Telecommunications
MINFOF	Ministry of Forestry and Wildlife
MINEPAT	Ministry of Economy, Planning and Regional Development
MINEPIA	Ministry of Livestock, Fisheries and Animal Industries
MINMIDT	Ministry of Mines, Industry and Technological Development
MINRESI	Ministry of Scientific Research and Innovation
MINESUP	Ministry of Higher Education,
MINSANTE	Ministry of Public Health
MINTOUR	Ministry of Tourism
MINCOMMERCE	Ministry of Commerce
NBSAP	National Biodiversity Strategy and Action Plan
NPPO	National Plant Protection Organization
OIE	Organization Internationale des Epizoosies (for Animal Health)
OCEAC	Organization of Coordination for the Fight against Endemic Diseases in Central Africa
PRA	Pest Risk Analysis
SODEPA	Industry for Development and Exploitation of Animal Productions
ToT	Training of Trainers’
WTO	World Trade Organization

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EXECUTIVE SUMMARY

The Cameroon Biosecurity Project (CBP) entitled “Development and Institution of a National Monitoring and Control System (Framework) for Living Modified Organisms (LMOs) and Invasive Alien Species (IAS) is aimed at increasing the capacity of stakeholders to prevent and control the introduction, establishment and spread of IAS and management of LMOs in Cameroon through the implementation of a risk-based decision making process. The project addresses four barriers as follows:

1. Ineffective policy, regulatory and institutional framework for the effective prevention and control of the introduction, establishment and spread of biological invaders,
2. Inadequate implementation of cost-effective risk-based biosecurity measures,
3. Insufficient capacity for a risk-based approach to biosecurity management and,
4. Lack of information to inform management and low levels of awareness among key stakeholder groups.

The project seeks to address these gaps through implementation of the following four interlinked components:

- i. Component 1 (Policy & Regulatory Framework): Establishment of policy and regulatory framework for effective prevention and control of the introduction, establishment and spread of biological invaders.
- ii. Component 2 (Capacity Building): Build capacity to enable the control of the entry, establishment and spread of IAS and management of LMOs.
- iii. Component 3 (Information and Awareness): Raise awareness of key stakeholder groups on risks, impacts and management of IAS and LMOs.
- iv. Component 4 (Risk-Based Management): Implement sustainable strategies for the risk-based management of priority pathways and species for IAS and LMOs.

Objectives of the training course

The objective of the activity is to develop a Training Course in Inspection Systems and Methods including Treatments for Cameroon based on the training of trainers (ToT) manual. The Project is aimed at raising awareness on inspection methods and best practice for treatment as part of an integrated risk-based approach to biosecurity amongst key stakeholder agencies in Cameroon including the country’s 28 phytosanitary inspection posts. This is in recognition of the important

role of preventing the introduction of invasive species as the first line of defense as part of a risk-based management system for biological invasions and the role that effective inspection systems play.

By the end of the training, trainees are expected to:

1. Understand inspection systems, inspection methods and treatment processes for movements of people and products into a country.
2. Have an overview of risk management analysis - selection of appropriate management options.
3. Understand inspection sampling methods and how they are used as a means of detection of a risk organism or its symptom.
4. Have an overview of the different treatment options available for different species / species types / commodities.

Activity Deliverables

The training output will be a manual to be organized in 8 sections and the following outputs will be produced:

1. Delivery of a three day course for 30 participants (from key disciplinary and sectors) including a course evaluation of relative capacity before and after the course based on the existing training of trainers manual (in MS Word and PowerPoint formats).
2. Course notes in PowerPoint and word.
3. Training report including details of any changes made to the training of trainers (ToT) manual in delivering the National Training.

The following course modules are proposed:

- I. Setting the scene or Course evaluation: pre-course knowledge assessment relative to course objectives.
- II. Inspection systems, inspection methods and regulations.
- III. Sampling, detection and diagnosis. Sampling – how to determine the sampling protocol. Inspection sampling methods used as a means of detection of a risk organism or its symptom.

- IV. Risk evaluation, risk management and monitoring. Risk management analysis – selection of appropriate management options by Identifying management measures for reducing the risks identified and the efficacy, feasibility and impact of these measures.
- V. Treatment options. An outline of the different treatment options available for different species / species types /commodities.
- VI. Inspection and practical
- VII. Risk communication
- VIII. Administrative and technical considerations. Course evaluation: post-course knowledge assessment relative to course objectives.

Course manual

A manual will be produced to accompany the course and as a resource for the subsequent **national training courses in Inspection Systems and Methods including Treatments**. The manual (in modules) will comprise of the PowerPoint presentations used in the course and accompanying course notes.