

# FUMIGATION AS A PHYTOSANITARY REQUIREMENT

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**PLANT QUARNTINE STATION,**  
**SEA PORT,**  
**COLOMBO.**

# Development & Trade

- **Increased with Movement / Travel**
- **Modes of Transport / by Sea and Air**
  - \* Therefore natural barriers are removed
  - \* Quarantine re-establishes the barriers.  
( Entry point inspections -at Sea port & Airport ).

# The Necessity of Plant Quarantine

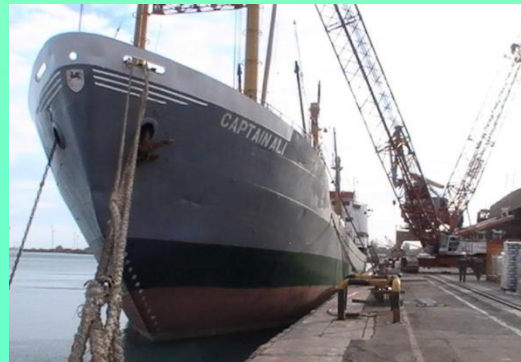
Introduction and spread of pests from other area

- 1.Fly with own wings
- 2.Winds(jet stream, typhoon, cyclone etc.)
- 3.Human being (migration of host plants by trade and tourism ,hitchhike in container, box and packaging material.)

**Expansion in international trade**

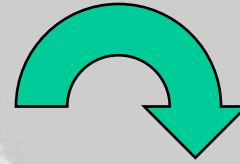


increasing the opportunity for new pests to be introduced into new region





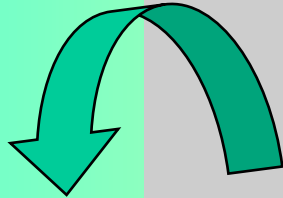
## Diseases



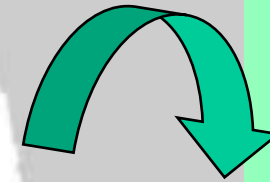
## Micro-organisms



# Plant Quarantine keeps pests at bay & protects Agriculture



## Weeds



## Insects



**Plant Quarantine  
plays an important  
role to prevent  
introduction and  
spread of pest from  
other countries and  
regions.**



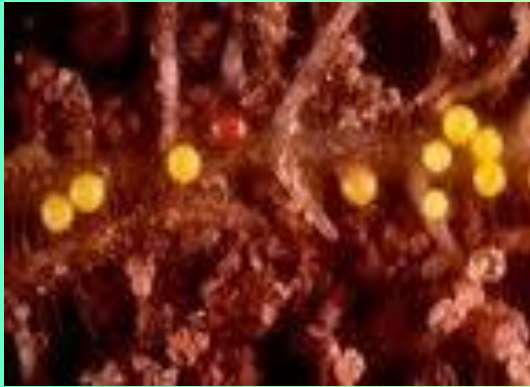
# Pest

**“Any biotic agent capable of causing injury or damage or loss to plants or plant products and shall include weeds.”**

Plant Protection Act No. 35 of 1999 of Sri Lanka

# Pests

- Insects
- Nematodes
- Bacteria
- Fungi
- Phytoplasma
- Virus
- Weeds



# Objectives of Plant Quarantine

- Control, prevention and eradication of plant pests, plant diseases and noxious plants (weeds).
- Reduced damage to crop and yield loss caused by pest
- Facilitate trade of agricultural produce.
- Prevent high quality/ threatened crop materials from being brought out of the country.
- Protects agricultural industries.
- To extend cooperation in the control of the movement of pests in international trade as well as to facilitate the trade.



# Functions

- Planning, implement and evaluate measures to protect plant through crop protection and plant quarantine service.
- Implement international treatise in related to agricultural product trade.

# Main Responsibilities

- Inspection of consignment
- Disinfestations / disinfection treatment.
- Action on non- compliance & notification.
- Surveillance-pest status, Pest reporting.
- Issue of **Phytosanitary Certificate**

# **Guidelines for a Phytosanitary Import Regulatory System.**


- International Standards for Phytosanitary Measures - ISPM No. 20

# Scope

- **This standard describes,**
  - Operation of a Phytosanitary import regulatory system
  - The rights
  - Obligations
  - Responsibilities
  - Structure

# Phytosanitary Certificate

- It is issued to indicate that consignments of plants, plant products or other regulated articles meet **specified phytosanitary import requirements** at importing / exporting country.

01. Name and address of exporter		02.  DEPARTMENT OF AGRICULTURE SRI LANKA <b>PHYTOSANITARY CERTIFICATE</b>	
03. Declared name and address of consignee		No. <b>QC 0312757</b> 1A <b>ORIGINAL</b>	
04. Plant Protection Organization of Sri Lanka To: Plant Protection Organization(s) of		05. Declared means of conveyance	
06. Place of Origin		07. Declared point of entry	
08. Distinguishing marks; Number and description of packages ; Name of produce (including botanical name of plants)		09. Quantity declared	
10. This is to certify that the plants, plant products or other regulated articles described herein have been inspected and/or tested according to appropriate official procedures and are considered to be free from the quarantine pests specified by the importing contracting party and to conform with the current phytosanitary requirements of the importing contracting party, including those for regulated non-quarantine pests.			
11. Additional declaration			
DISINFESTATION AND/OR DISINFECTION TREATMENT		18. Place of issue	
12. Treatment		Stamp of Organization	
13. Chemical (active ingredient)		14. Duration and temperature	
15. Concentration		16. Date	
17. Additional information		Name of authorized officer	
		Signature	
		Date	

No financial liability with respect to this certificate shall attach to the Department of Agriculture - Sri Lanka or to any of its officers or representatives.

# Consignment Fumigation

## Phytosanitary treatments for regulated pests

International Standards for Phytosanitary  
Measures - ISPM No. 28

# Common Fumigants

- **Methyl bromide -  $\text{CH}_3\text{Br}$**
- **Phosphine -  $\text{PH}_3$**

# Fumigation

- **Export consignments**
- **Import consignments**



# Export Consignment Fumigation

- Freedom from Khapra beetle
- (Trogoderma granarium).
  - Tea
  - Coir products
  - Wooden items
  - Food items
  - Wheat pellets
- Freedom from any regulated pests
- Freedom from Stegobium paniceum
- Freedom from Timber pests



Khapra beetle



Stegobium paniceum

# Concentration depend on

- Commodity
- Entry condition
- Type of chemical use
- Method of use

# Countries that highly concern about Plant Quarantine

- Australia
- New Zealand
- Turkey
- Vietnam
- Korea
- Egypt
- Jordan
- Kenya
- Malaysia
- Iran
- Israel

# Certification of Wooden pallets & wood packaging

- **Objective**

To certify the product is free from timber pests



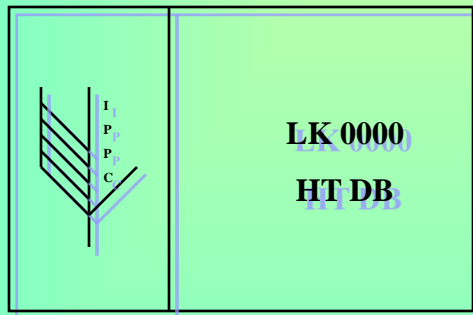
- **Certification**

IPPC Logo, mark on the surface

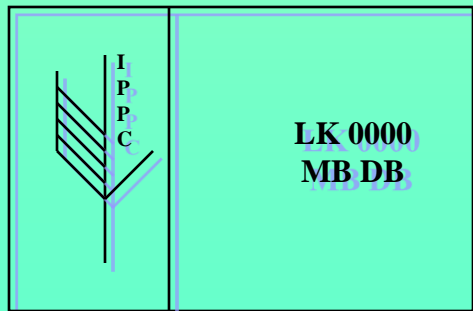


# Wooden pallet Treatment

- Heat Treatment



- Chemical Treatment



**Thank You**

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