

Government of the People's Republic of Bangladesh

Ministry of Agriculture
Department of Agricultural Extension
Plant Quarantine Wing

Form IX



PC- 0001606

Place of Issue
HAZRAT SHAHJALAL, DHAKA

PHYTOSANITARY CERTIFICATE

Rule 27(3)

To : The Plant Protection Organization of UK Date Inspected 16-Jan-16

I. Description of the consignment

Name and address of exporter : ARITRA TRADE INTERNATIONAL, 20, MOHANI MOHAN DAS LANE, SUTRAPUR, DHAKA-1100, BANGLADESH.

Declared name and address of consignee : GARDEN FRESH IMPORTERS LTD. 488, RAILWAY ARCHES CANTELL ROAD, LONDON E-3, 4BN, U.K

Number and description of packages : 38 CARTONS

Distinguishing mark : GP

Place of origin : BANGLADESH

Declared means of conveyance : BY AIR

Declared point of entry : LONDON, U.K

Name of produce and quantity declared : 152(ONE HUNDRED & FIFTY TWO) KGS, FRESH JUJUBE.

Botanical name of plant : *Zizyphus mauritiana*

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 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. They are deemed to be practically free from other pests.

II. Additional declaration

III. Disinfestation and/or Disinfection treatment

Date / / Treatment NIL

Chemical (active ingredient) and concentration NIL

Duration of exposure and temperature NIL

Additional information NIL

**VALID FOR SHIPMENT
WITHIN 24 HOURS**

WARNING : Any alteration, forgery, or unauthorized use of this phytosanitary certificate is punishable with imprisonment for a term not exceeding 2 (two) years, or with a fine not exceeding 5,00,000 (five lac) or with both. (Section 31 of Plant Quarantine Act, 2011).



Name of authorised officer : Md. Monzurul Hoque
Quarantine Pathologist Signature :

Date of Issue : 16-Jan-16
Plant Quarantine Station
Hazrat Shahjalal Int'l Airport
Dhaka, Bangladesh

No liability shall be attached to the Ministry of Agriculture or the Department or to any of its Officer or representative with respect to this certificate.

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 350

LECTURE 11

The first part of the lecture discusses the concept of a *microstate*. A microstate is a specific configuration of a system's particles. For example, in a gas, a microstate would specify the position and momentum of every molecule. The total number of possible microstates for a system is denoted by Ω . This number is directly related to the system's entropy, S , through the Boltzmann equation:

$$S = k_B \ln \Omega$$

where k_B is Boltzmann's constant. The second part of the lecture introduces the concept of a *macrostate*, which is a collection of microstates that share certain macroscopic properties, such as total energy, volume, and number of particles. The probability of a system being in a particular macrostate is determined by the number of microstates it contains.

The lecture then discusses the *fundamental postulate of statistical mechanics*, which states that all microstates consistent with the macrostate are equally probable. This postulate is the foundation for calculating the average values of macroscopic quantities.

Finally, the lecture covers the concept of *ensemble averages*. An ensemble is a collection of many copies of a system, each in a different microstate. The average value of a macroscopic quantity over the ensemble is equal to its average value over the microstates.

PHYSICS 350
 LECTURE 11

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 Physics Department
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