

Public Works (1897) Department.

G.O., No. 299R

DATED 30 April 1897

[Despatch Abstract.]

Bubonic Plague

Letter from the Govt. of India issuing instructions that all vehicles conveying passengers & their luggage from districts affected with the — to other parts of India should be cleaned as a precautionary measure against the spread of infection, communicated to the Agents, Madras & South Indian and Nilgiri Railways for information & guidance.

Bf-

Order No. 299 R. dated 30/4/97

Communicated to the From  
Agents, Madras, South Indian  
& Nilgiri Railway, for infor-  
mation & guidance

The Govt of India  
P. W. D.  
No. 349 R. I.

*Dated* 21. 4. 97

Received 27.4.97

## Enclosures

*Spare copies*

SUBJECT.

Subonic Plague

Issuing instructions that all vehicles conveying passengers & their luggage from Districts affected with the — to other parts of India should be cleaned as a precautionary measure against the spread of infection

Zy

The Agent a <sup>50</sup> ~~large~~ <sup>small</sup> ~~note~~  
 a a <sup>50</sup> ~~large~~ <sup>small</sup> ~~note~~  
 a a <sup>50</sup> ~~large~~ <sup>small</sup> ~~note~~  
 i Local & Municipal deficits

FURTHER PAPERS.

GOVERNMENT OF INDIA.  
PUBLIC WORKS DEPARTMENT.  
RAILWAY TRAFFIC.

SIR,

*First and second class carriages.*—The floors and wood-work to be treated as above, the cushions being also brushed and thoroughly cleaned.

(b) Carriages in which cases of plague *have been* detected—

(i) These, after being detached from the train, should be thoroughly washed with soft soap and lime-water. After an interval of two to three hours this should be washed off with plain water, and then the following disinfecting solution should be thoroughly sprayed all over the interior as well as the exterior of the carriages by means of a syringe:—

|                     |     |     |     |     |                   |
|---------------------|-----|-----|-----|-----|-------------------|
| Corrosive sublimate | ... | ... | ... | ... | $\frac{1}{2}$ oz. |
| Hydrochloric acid   | ... | ... | ... | ... | 1 "               |
| Water               | ..  | ... | ... | ... | 3 gallons.        |

This solution should be allowed to dry on the carriages. Special care must be taken to direct the solution into all the cracks and crevices and jilmills.

(ii) After disinfection, the carriages should be kept out in the open for 48 hours. They can then be brought into use again.

(iii) In the case of first and second class carriages, which afford greater facilities than third class compartments for the harbouring of plague germs, it will be necessary, if the carriages are contaminated, to burn the cushions and to disinfect the wood-work in the manner indicated above, and repaint the interior.

(iv) Any compartment in which a suspicious case has travelled should be sprayed with the above disinfecting solution before being allowed to proceed.

I have the honour to be,

SIR

Your most obedient servant.

*G. A. M. M. M. M.*

Under Secretary.

*M. M. M.*

Documents accompanying.

Nil.

*To*  
*The Joint Secy. to the Govt. of Madras*  
*Public Works Department, Ry. Branch*  
*with 50 spare copies*

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TRANSLATION  
OF THE  
VENICE SANITARY CONVENTION  
OF  
1897.

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## CONVENTION.

HER MAJESTY THE QUEEN OF GREAT BRITAIN AND IRELAND, EMPRESS OF INDIA; HIS MAJESTY THE KING OF SPAIN, AND IN HIS NAME, HER MAJESTY THE QUEEN REGENT; HIS MAJESTY THE EMPEROR OF GERMANY, KING OF PRUSSIA, ON BEHALF OF THE GERMAN EMPIRE; HIS MAJESTY THE EMPEROR OF AUSTRIA, KING OF BOHEMIA, ETC., ETC., AND APOSTOLIC KING OF HUNGARY; HIS MAJESTY THE KING OF BELGIUM; THE PRESIDENT OF THE FRENCH REPUBLIC; HIS MAJESTY THE KING OF GREECE; HIS MAJESTY THE KING OF ITALY; HIS ROYAL HIGHNESS THE GRAND DUKE OF LUXEMBOURG; HIS HIGHNESS THE PRINCE OF MONTENEGRO; HIS MAJESTY THE SULTAN OF TURKEY; HER MAJESTY THE QUEEN OF THE NETHERLANDS, AND, IN HER NAME, HER MAJESTY THE QUEEN REGENT; HIS MAJESTY THE SHAH OF PERSIA; HIS MAJESTY THE KING OF PORTUGAL AND ALGARVA; HIS MAJESTY THE KING OF ROUMANIA; HIS MAJESTY THE EMPEROR OF RUSSIA; HIS MAJESTY THE KING OF SERBIA; THE FEDERAL COUNCIL OF SWITZERLAND.

Having decided to concert measures for the prevention of the introduction and spread of the plague, and for the necessary sanitary supervision of the Red Sea and Persian Gulf traffic, have nominated their plenipotentiaries, as follows:—

[Here follow the names of the plenipotentiaries nominated by the several Governments.]

These plenipotentiaries, having exchanged their full powers, and found them in due and proper form, are agreed on the following regulations with regard to districts infected with plague, and with regard to arrivals from those districts:—

1. The measures described in the General Sanitary Regulations for the prevention of the introduction and spread of the plague, annexed to the present Convention, are adopted and have the same force as if they were embodied in it.

2. The proper authorities in Morocco will be requested to apply, to the ports of that country, measures in conformity with those prescribed in the above mentioned rules.

3. Those countries which have not taken part in the Conference, or which have not signed the Convention, may, on demand, be permitted to become parties to it.

The fact will be notified, through diplomatic channels, to the Italian Government, and by the latter to the other Governments who are parties to the Convention.

4. The present Convention will remain in force for five years, dating from the exchange of ratifications.

It will be renewed every five years, by tacit consent, unless one of the high contracting parties notifies, six months before the expiration of the aforesaid period of five years, its intention to withdraw from it.

In the event of one of the powers withdrawing from the Convention, this withdrawal will only effect that power.

5. The high contracting parties reserve to themselves the right of suggesting, through diplomatic channels, any modifications which they may deem necessary in the Convention or its annexures.

The Convention will be ratified; the ratifications will be deposited at Rome, as soon as possible, and, at the latest, within one year from the date of signature.

In witness whereof the respective plenipotentiaries have signed and sealed the Convention.

Executed at Venice, in eighteen parts, on the 19th March 1897.

# GENERAL RULES FOR THE PREVENTION OF THE INTRODUCTION AND SPREAD OF THE PLAGUE.

## CHAPTER I.

### MEASURES TO BE TAKEN OUT OF EUROPE.

#### I.

##### NOTIFICATION.

The Government of each country which adheres to the present Convention will notify to the Governments of the other countries, by telegram, the appearance of any case of plague in their territories in accordance with section I, Chapter II. "Measures to be taken in Europe." Sections 2, 3 and 4 of the same Chapter are also applicable out of Europe.

It is also desirable that the measures prescribed for countries in Europe in order to keep the signatories of the Convention informed of an outbreak of the plague, and also the means adopted to prevent its propagation and importation into uninfected countries, should be applied in other countries.

#### II.

##### SANITARY MEASURES FOR SHIPS SAILING FROM INFECTED PORTS.

###### MEASURES APPLICABLE BOTH TO ORDINARY VESSELS AND TO PILGRIM SHIPS.

1. Compulsory individual medical inspection, by day, on shore, at the time of embarkation, during such period as may be necessary, by a doctor appointed by public authority, of each person sailing on the ship.

The Consular authority interested in the ship may be present at this inspection.

2. Compulsory and rigorous disinfection, on shore, under the superintendence of a doctor appointed by public authority, of every contaminated or suspected article in the manner prescribed in paragraph 5. Chapter III, of the annexure to this Convention.

3. Prevention of the embarkation of any person showing symptoms of plague.

##### PILGRIM SHIPS.

1. When there is plague in the port, embarkation on board pilgrim ships must not take place, until the pilgrims collected in groups have been subjected to an inspection sufficient to ascertain that none of them are suffering from plague.

It is to be understood that in carrying out this measure each Government may take into account local considerations and condition.\*

2. Pilgrims must possess the means absolutely necessary for the accomplishment of the pilgrimage, for the voyage out and for the return voyage and for the sojourn in the holy places, if local circumstances permit of this rule being enforced.

##### MEASURES TO BE TAKEN ON BOARD PILGRIM SHIPS.

###### SECTION I.—General Rules.

Art. 1.—The following regulations are applicable to pilgrim ships which carry Muhammadan pilgrims to or from the Hedjaz or the Persian Gulf.

Art. 2.—A ship is not to be considered a pilgrim ship although, in addition to her ordinary passengers, among whom may be included pilgrims of the upper classes, she carries pilgrims of the lowest class in a less proportion than one pilgrim per 100 tons gross.

Art. 3.—Every pilgrim ship, on entering the Red Sea and the Persian Gulf, must conform to the instructions contained in the *rules specially prescribed for the pilgrimage to the Hedjaz* which will be published by the Constantinople Board of Health, in accordance with the principles laid down in the present Convention.

Art. 4.—Steamers only are permitted to carry pilgrims on long voyages. The carriage of pilgrims by other ships on such voyages is prohibited.

Pilgrim ships, on coasting service, intended for short passages, called "coasting voyages," must obey the instructions contained in the special Rules mentioned in article 3.

\* The Conference has decided, for instance, that, in the Dutch Indies, this inspection may be made on board ship at the time of departure.

## SECTION II.—Measures to be taken before departure.

Art. 5.—The captain, or in default the proprietor or agent of every pilgrim ship, is bound to declare to the appointed authority\* of the port of departure his intention to embark pilgrims, at least 3 days before departure. This declaration must state the proposed date of departure and the destination of the vessel.

Art. 6.—On receipt of this declaration, the appointed authority will proceed, at the expense of the captain, to inspect and measure the vessel. The Consular authority interested in the ship may be present at this inspection.

The inspection need not be performed if the captain is already furnished with an official certificate of measurement, unless it is believed that this document no longer corresponds to the actual state of the vessel.

Art. 7.—The appointed authority must not permit the departure of a pilgrim ship until he has satisfied himself—

- (a) That the ship has been thoroughly cleaned and, if necessary, disinfected.
- (b) That the ship is in a condition to undertake the voyage without danger, that she is properly manned, equipped and ventilated, and provided with a sufficient number of boats; that there is on board nothing that is, or is likely to become, injurious to the health or safety of the passengers, and that the upper and lower decks are of wood, or of iron sheathed in wood.
- (c) That there is on board, properly stowed away, over and above the rations for the crew, sufficient food and fuel for all the pilgrims, during the declared duration of the voyage.
- (d) That the drinking water is of good quality and from a source protected from contamination; that it is in sufficient quantity; that the tanks for drinking water are safe from all contamination and so closed that the distribution of water can only be made by taps or pumps.
- (e) That the vessel carries a condenser, capable of distilling a minimum quantity of 1 gallon of water, per diem, for every person on board, including the crew.
- (f) That the ship possesses a disinfecting stove, certified to be safe and efficacious.
- (g) That, in accordance with the rules laid down in articles 11 and 23, the vessel carries a diplomated and licensed doctor,† appointed either by the Government of the country to which she belongs, or by the Government of the port where the pilgrims embark, and that she carries medical stores.

- (h) That the deck is free from merchandise and all encumbrances.
- (i) That the arrangements on board are such as to allow of the measures prescribed in section III being carried out.

Art. 8.—The captain will cause notices, in the languages commonly spoken by the pilgrims, to be posted up in a conspicuous place, accessible to all concerned, showing:—

- (1) The destination of the ship.
- (2) The daily ration of food and water allowed to each pilgrim.
- (3) The price of articles not included in the daily ration, which can be procured on extra payment.

Art. 9.—The captain must not start without having in his possession:—

- (1) A list, countersigned by the appointed authority, showing the name, sex, and total number of pilgrims he is authorized to carry.
- (2) A Bill of Health, stating the name, nationality and tonnage of the ship, the name of the captain and of the doctor, the exact number of persons embarked—crew, pilgrims and other passengers—the nature of the cargo and the port of departure.

The appointed authority will note on the certificate whether or not the authorized number of pilgrims has been embarked, and, in the latter case, the additional number of passengers the vessel is authorized to embark at subsequent ports of call.

Art. 10.—The appointed authority will take stringent measures to prevent the embarkation of any suspicious person or article‡, in accordance with the rules laid down for precautions to be taken in ports.

## SECTION III.—Precautions to be taken on the voyage.

Art. 11.—Every ship embarking pilgrims should have on board a licensed doctor, appointed by the Government of the country to which the ship belongs, or by the Government of the port where the pilgrims are embarked. A second doctor should be carried when the number of pilgrims exceeds 1,000.

Art. 12.—The doctor must inspect the pilgrims, tend the sick, and see that sanitary rules are observed on board.

He must, in particular:—

- (1) Satisfy himself that the rations issued to the pilgrims are of good quality, and of the quantity agreed on, and that they are properly cooked.
- (2) Satisfy himself that the rules in article 20, regarding the distribution of water, are observed.
- (3) If not satisfied as to the quality of the drinking water, call the attention of the captain, in writing, to the rules in article 21.
- (4) Satisfy himself that the vessel is always kept clean, and particularly that the latrines are cleaned out, in accordance with the directions in article 18.
- (5) Satisfy himself that the pilgrims' quarters are kept healthy, and, in case of the occurrence of infectious disease, that disinfection is carried out in the manner prescribed in article 19.

\* The appointed authority is: in British India, an officer appointed on this behalf by the Local Government (Native Passenger Ships Act, 1887, article 7); in the Dutch Indies, the captain of the port; in Turkey, the sanitary authority; in Austro-Hungary, the port officer; in Italy, the captain of the port; in France, Tunis and Spain, the sanitary authority; in Egypt, the sanitary, quarantine, etc., authority.

† Except in the case of Governments without licensed doctors.

‡ See Chapter IV, section 1, articles 1 and 2 of this Convention.

(6) Keep a diary of all sanitary matters during the voyage and submit this diary to the appointed authority at the port of arrival.

*Art. 13.*—The vessel must be capable of accommodating the pilgrims in the between decks. Over and above the space required for the crew, the ship must contain at least sixteen superficial feet and a height between decks of at least six feet of space available for each person irrespective of age. In coasting vessels, each pilgrim must be allowed a space at least six and a half feet wide along the gunwales.

*Art. 14.*—During the voyage the deck must be kept free from encumbrances; it must be reserved, night and day, for the passengers, and placed, without charge, at their disposal.

*Art. 15.*—The heavy baggage of the pilgrims must be registered, numbered and placed in the hold. Pilgrims may only keep with them such articles as are absolutely necessary.

The nature, quantity and dimensions of such articles will be decided by each Government for its own ships.

*Art. 16.*—The between decks must be carefully washed and rubbed with dry sand, mixed with disinfectants, every day while the pilgrims are on deck.

*Art. 17.*—On each side of the ship, on deck, a place should be set apart, screened from view and provided with a hand-pump, to supply sea-water, for the use of the pilgrims. One such place should be exclusively reserved for women.

*Art. 18.*—The ship must be provided, in addition to the latrines for the crew, with water-closets in a minimum proportion of one per hundred passengers. Some latrines must be reserved for women. No closets must be allowed between decks or in the hold. The latrines allotted to the passengers, as well as those of the crew, must be kept clean, and should be flushed and disinfected three times a day.

*Art. 19.*—The ship must be disinfected in accordance with the instructions in paragraphs 5 and 6 of Chapter III of the annexure, to this Convention.

*Art. 20.*—At least 1 gallon of drinking water must be issued daily to each pilgrim, irrespective of age, free of charge.

*Art. 21.*—If there is any doubt as to the quality of the drinking water, or as to the possibility of its pollution either at its source or during the voyage, it must be boiled or otherwise sterilized, and the captain is responsible for seeing that it is thrown overboard, at the first port of call, where it is possible to procure a purer supply.

*Art. 22.*—The ship must have two cabooses or cooking ranges provided for the use of the pilgrims. The pilgrims should be forbidden to light fires elsewhere, especially on the deck.

*Art. 23.*—Each ship must carry such medicines and medical stores as are necessary for the treatment of the sick. The rules drawn up for pilgrim ships by each Government will determine the nature and quantity of such stores. Attendance and medicines must be provided for the pilgrims free of charge.

*Art. 24.*—A hospital properly fitted up, and constructed with due attention to health and safety, must be reserved for the accommodation of the sick. It should be capable of accommodating at least 5 per cent. of the pilgrims on board, and should provide for each patient a space of 32 square feet.\*

*Art. 25.*—The ship must be provided with the means of segregating persons attacked by plague. The persons charged with the care of plague patients may alone have access to them, and the sick must not be brought into contact with the other passengers.

All bedding, carpets and clothes which have been in contact with the sick should be immediately disinfected.

The observance of this rule is specially enjoined in the case of the clothes of persons attending the sick, which may have been contaminated.

Those of the abovementioned articles which are not valuable should be thrown overboard, if the ship is not in harbour or in a canal, or else burnt.

Other articles should be carried to the stove in impermeable bags, washed in a solution of corrosive sublimate.

The excreta of patients must be received in vessels containing a disinfecting solution. These vessels should be emptied into the latrines which must be rigorously disinfected each time.

The patients' quarters must be rigorously disinfected. The disinfection must be carried out in accordance with paragraph 5, Chapter III, of this Convention.

*Art. 26.*—In the event of a death occurring during the voyage, the captain must enter the fact opposite the name of the deceased, on the list countersigned by the appointed authority at the port of departure, and must also enter in the log the name of the deceased, age, place of residence, supposed cause of death according to the medical certificate, and date of death.

In the event of a death from infectious disease, the corpse, wrapped in a shroud, impregnated with a solution of corrosive sublimate, must be thrown into the sea.

*Art. 27.*—The Bill of Health given at the port of departure must not be altered during the voyage.

\* The Conference having learned the nature of the hospital accommodation which must be provided, in accordance with rule 53 of the rules framed under the Pilgrim Ships Act by the Government of India, recommends their adoption in substitution for article 24.

*Extract—*  
The hospital accommodation shall be provided on the upper deck either in the poop or in a deck-house. A permanent hospital shall be provided containing not less than six bunks, and having a deck area of at least 144 superficial feet and dimensions of not less than 64 cubic feet. On every pilgrim ship on which there are 50 or more female pilgrims, there shall be a separate permanent hospital, containing not less than two bunks with a deck area of at least 72 superficial feet and dimensions of not less than 288 cubic feet, which shall be reserved for the use of women and children under 12 years of age. The hospitals shall be lighted and ventilated to the satisfaction of the Inspector and shall be provided with permanent raised floors or platforms at least 4 inches off the deck. They shall be made as secure as any other deck-house, and the roof shall be well caulked and covered with painted canvas. No case of small-pox, cholera, yellow fever or plague shall on any account be treated in a permanent hospital.

Materials shall be carried for the construction on the upper deck of a separate temporary hospital for the treatment of such cases of sickness as it may be considered desirable specially to segregate (such as small-pox, cholera, yellow fever or plague). The part of the upper deck upon which such hospital shall, if required, be erected shall be pointed out by the Inspector. It shall be constructed on the same principles as the permanent hospital, and the superficial area of the floor shall not be less than 144 square feet.

It must be countersigned at each port of call by the sanitary authorities, who should enter:—

1. The number of passengers disembarked or embarked at the port.
2. Anything that has happened at sea affecting the life or health of the passengers.
3. The state of the health of the port of call.

*Art. 28.*—At each port of call, the captain must cause the list drawn up in accordance with Article 9 to be countersigned by the appointed authority.

In the event of a pilgrim disembarking, during the voyage, the captain must note the fact on the list, opposite the pilgrim's name.

In the case of persons embarking, their names must be entered on the list in accordance with Article 9. This must be done previously to the list being countersigned by the appointed authority.

*Art. 29.*—The captain must see that all sanitary preventive measures taken during the voyage are entered in the log. This document is to be submitted by him to the appointed authority at the port of arrival.

*Art. 30.*—The captain must pay all sanitary charges, which should be included in the price of the tickets.

#### SECTION IV.—Penalties.

*Art. 31.*—Any captain convicted of a breach of his contract for the supply of water, food or fuel, will be liable to a fine of 2 pounds Turkish.\* This fine will be paid to the pilgrim who has suffered from the breach of contract on proof that he demanded its fulfilment without effect.

*Art. 32.*—Any infraction of Article 8 is punishable by a fine of 30 pounds Turkish.

*Art. 33.*—Any captain, who commits, or knowingly allows to be committed, any fraud with respect to the list of pilgrims, or of the Bill of Health prescribed in Article 9, is liable to a fine of 60 pounds Turkish.

*Art. 34.*—Any captain arriving without a Bill of Health from the port of departure, or without its being countersigned at the ports of call, or being unprovided with the prescribed list, duly kept up according to Articles 9, 27 and 28, is liable, in each case, to a fine of 12 pounds Turkish.

*Art. 35.*—Any captain convicted of having, or of having had, on board, more than 100 pilgrims, without the presence of a licensed doctor, in accordance with the rule in Article II, is liable to a fine of 300 pounds Turkish.

*Art. 36.*—Any captain convicted of having, or of having had, on board, more pilgrims than he was authorized to carry, in accordance with the rules in Article 9, is liable to a fine of 5 pounds Turkish for each pilgrim in excess of the authorized number.

The disembarkation of the pilgrims in excess of the authorized number must be effected at the first station where there is an appointed authority, and the captain must provide the pilgrims so disembarked with sufficient money to enable them to reach their destination.

*Art. 37.*—Any captain convicted of having disembarked pilgrims at a place other than their destination, unless with the consent, or from unavoidable cause, is liable to a fine of 20 pounds Turkish for each pilgrim thus disembarked.

*Art. 38.*—All other infractions of the present rules are punishable by a fine of from 10 to 100 pounds Turkish.

*Art. 39.*—Any offence reported during the voyage should be entered in the Bill of Health, and in the list of pilgrims. The appointed authority will submit an official report on the offence to the proper authorities.

*Art. 40.*—In Turkish ports the offence is tried before and the fine imposed by the appointed authority, in accordance with the rules in Chapter V of this Convention.

*Art. 41.*—All agents required to assist in the execution of these rules are liable to punishment for any breach of them, according to the laws of their respective countries.

*Art. 42.*—These rules must be posted up in the language of the nationality of the ship, and in the languages commonly spoken by the pilgrims, in a conspicuous and accessible place, on board every pilgrimship.

#### III.

#### MEASURES TO BE TAKEN TO PREVENT THE IMPORTATION OF PLAGUE.

##### 1.—BY LAND.

The measures to be taken, on land, with respect to travellers and goods from regions infected with plague, should conform to the sanitary principles laid down in this Convention. Modern methods of disinfection should be substituted for land quarantine.

For this purpose stoves and other means of disinfection should be established at selected posts on the routes followed by travellers. Similar methods should be adopted on railways, constructed or in course of construction. Merchandise should be disinfected according to the principles adopted by this Convention.

Each Government is at liberty to close its frontiers to passengers and goods.

##### 2.—BY SEA.

##### A.—MEASURES TO BE TAKEN IN THE RED SEA.

*Art. I.—Healthy Ships.*—(a) After the medical inspection, ships passed as healthy, will be allowed to proceed at once, whatever the nature of the Bill of Health.

The ship must, however, have completed, or must complete, ten full days from the date of departure from the last infected port at which she has touched.

The only treatment the authorities of the port of arrival may apply to such ships, consists in the measures prescribed for suspected ships (medical inspection, disinfection of soiled linen, pumping out the bilge water, and substituting good drinking-water for that stored on board).

(b) *Ordinary healthy ships* will be allowed to pass through the Suez Canal, in quarantine. They will complete in the Mediterranean the ten days' period of observation. Ships carrying a doctor and a stove will not be disinfected before the passage in quarantine.

\* A Turkish pound is of the value of 22½ francs.

8. When it is absolutely necessary for ships, passing in quarantine, to coal at Port Said, they must do so at a place, to be fixed by the Sanitary Board, where the necessary isolation and sanitary supervision can be secured. When effective supervision is possible, and all contact with the people on board can be avoided, the coaling may be done by the labourers of the port. At night, the place must be lighted by the electric light.

9. The pilots, electricians, agents of the Company and sanitary guards will be disembarked at Port Said, outside the port, between the jetties, and from thence, will be taken direct to the quarantine pontoon, where their clothes will be thoroughly disinfected.

**MEASURES TO BE TAKEN IN THE CASE OF SHIPS ARRIVING IN EGYPT FROM AN INFECTED PORT BY WAY OF THE MEDITERRANEAN.**

1. Ordinary *healthy* ships, coming from a European or Mediterranean infected port, wishing to pass the Suez Canal, will be allowed to do so in quarantine. They will continue their voyage, remaining under observation for ten days.

2. Ordinary *healthy* ships, wishing to land in Egypt, can put in at Alexandria or Port Said, where the passengers will complete the period of observation, either on board, or in the Lazaretto of Gabari, as the local sanitary authority may direct.

3. The measures to be taken as regards *infected* and *suspected* ships, coming from an infected European or Mediterranean port, and desiring to call at an Egyptian port, or to pass the Suez Canal, will be settled by the Sanitary Council, in accordance with the regulations adopted by this Convention.

These measures, must, before they can be carried out, be accepted by the different Powers represented on the Board. They will regulate the conditions to be imposed with regard to ships, passengers and goods.

The Board will, similarly, submit to the Powers, a code of rules dealing with cholera.

These two codes should be submitted as soon as possible.

**SANITARY SUPERVISION OF PILGRIMS IN THE RED SEA.**

*Sanitary rules for pilgrim ships from infected ports in the (reorganised) sanitary station of Kamaran.*

Pilgrim ships coming from the south, and bound for the Hedjaz, will be detained at the sanitary station of Kamaran, and then undergo the following treatment:—

Ships declared *healthy* will, after medical inspection, and on completion of the operations detailed below, be given *free pratique*.

The pilgrims will be disembarked, they will wash or take a bath in the sea; their soiled linen, and any portion of their personal effects or baggage, open, in the opinion of the sanitary authority, to the suspicion of being contaminated, will be disinfected. The duration of these operations, including the disembarkation and embarkation, should not exceed 72 hours. If no case of plague is reported during the operations, including the disembarkation and embarkation, should not exceed 72 hours. If no case of plague is reported during the operations, including the disembarkation and embarkation, should not exceed 72 hours. If no case of plague is reported during the operations, including the disembarkation and embarkation, should not exceed 72 hours.

*Suspected* ships, that is to say, those which have had a case of plague on board, at the time of departure or during the voyage, but no fresh case for 12 days, will be treated as follows: the pilgrims will be disembarked; they will wash or take a bath in the sea; their soiled linen, and any portion of their personal effects or baggage, open, in the opinion of the sanitary authority, to the suspicion of being contaminated, will be disinfected; the bilge water will be pumped out; and the parts of the ship inhabited by the sick will be disinfected.

The duration of these operations, including the disembarkation and embarkation, should not exceed 72 hours. If no case of plague is reported during the operations, the pilgrims will be immediately re-embarked, and the ship will proceed to Jeddah, where a second medical inspection will take place on board. If the result is favourable, and the ship's doctor declares on oath that there has been no case during the passage, the pilgrims will be at once disembarked.

If, on the contrary, cases of plague have occurred during the voyage or on arrival, the ship will be sent back to Kamaran, where she will undergo the treatment for *infected* ships.

*Infected* ships, that is to say, those having cases on board, or having had them within 12 days, will undergo the following treatment:—

The plague patients will be disembarked and segregated in the hospital. The disinfection will be thoroughly carried out. The other passengers will be disembarked and isolated, by groups, as small as possible, so that if the plague breaks out in one group, the whole party will not be affected.

The soiled linen, the personal effects, and the clothes of the crew, and passengers, and the ship, will be disinfected.

The local sanitary authority will declare if the discharge of the heavy baggage and cargo is necessary, and if the whole ship must be disinfected, or a portion only.

The passengers will remain at Kamaran for 12 days; when the cases of plague occurred several days before arrival, the period of isolation may be diminished and it may vary according to the date of occurrence of the last case, and the orders of the sanitary authority.

The ship will then proceed to Jeddah, where a strict individual medical examination will take place on board. If the result is satisfactory, the pilgrims will be disembarked. If, on the other hand, plague has appeared during the voyage, or on arrival, the ship will be sent back to Kamaran, where she will again undergo the treatment for *infected* ships.

*Improvements to be made in the station of Kamaran.*

A.—Complete evacuation of the Island of Kamaran by its inhabitants.

B.—Measures to ensure safety, and to facilitate navigation in the bay of the Island of Kamaran:—

1. Provision of buoys and beacons in sufficient numbers.
2. Construction of a principal mole or quay for the disembarkation of passengers and baggage.
3. A separate pier for the embarkation of the pilgrims of each encampment.
4. A steam tug and sufficient barges for the disembarkation and embarkation of the pilgrims.

The disembarkation of pilgrims from *infected* ships will be carried out with the appurtenances on board.

C.—The establishment of a sanitary station, which should contain:—

1. A system of railways, connecting the wharves with the head-quarters of the Administration the places for disinfection, and the places where the different offices and encampments are situated.
2. Quarters for the Administration and for the staff employed in the sanitary and other officers.
3. Buildings for the disinfection and washing of wearing apparel and other articles.
4. Buildings where the pilgrims can wash or take sea baths, whilst their clothes are being disinfected.

5. Separate and completely isolated hospitals for both sexes:—

- (a) For the observation of *suspected* persons.
- (b) For plague patients.
- (c) For patients suffering from other contagious diseases.
- (d) For ordinary patients.

6. The encampments should be completely separated from each other, the distance between them being as great as possible; the pilgrims' quarters should be constructed on the most approved sanitary principles, and must not contain more than 25 persons each.

7. A well situated cemetery, distant from all habitations, free from sub-surface water, and drained 20 inches below the level of the graves.

D.—Sanitary appliances:—

1. Steam disinfectors in sufficient number, constructed with due regard to safety, efficacy and rapidity.

2. Oinators, disinfecting stoves and the necessary appliances for chemical disinfection, as described in Chapter III of the annexure to this Convention.

3. Condensing machines; apparatus for the sterilization of water by heat; ice machines.

A system of pipes and reservoirs for the distribution of drinking water, which should be closed, and only capable of being used by means of taps or pumps.

4. A bacteriological laboratory with the necessary staff.

5. An arrangement of portable vessels for the reception of faecal matter after disinfection. Sewage farms for the disposal of faecal matter on the part of the island most distant from the encampments, arranged with due regard to their proper sanitary working.

6. An arrangement for the removal of dirty water from the encampments, which must prevent its stagnation and its use for drinking purposes. The dirty water of the hospitals should be disinfected with slaked lime, according to the instructions contained in Chapter III of the annexure to this Convention.

E.—The provision by the sanitary authority in each encampment of a store for food and fuel.

The tariff of prices fixed by the appointed authority should be hung up in several places in the encampment, in the languages commonly spoken by the pilgrims.

The doctor of the encampment will be responsible for the daily control of the quality and quantity of the provisions.

Water should be provided free of charge.

*Improvements to be made in the sanitary stations of Abu-Said, Vasta, and Abu-Ali.*

1. Erection of two plague hospitals, for men and women, at Abu-Ali.
2. Erection at Vasta of a hospital for ordinary cases.
3. Construction at Abu-Said and Vasta of masonry barracks, capable of containing 50 persons each.
4. Three disinfecting stoves to be placed at Abu-Said, Vasta, and Abu-Ali, with laundries and accessories.
5. Washing places to be provided at Abu-Said and Vasta.
6. Condensers to be provided on each of the islands of Abu-Said and Vasta, capable of distilling 15 tons of water per diem.
7. The rules for cemeteries, faecal matter, and dirty water, will be the same as for Kamaran. A cemetery should be provided on one of the islands.

The rules with regard to the supply of food and water at Kamaran prescribed under heading E above will be applied to the encampments of Abu-Said, Vasta, and Abu-Ali.

It is desirable that the arrangements at Abu-Said, Vasta, and Abu-Ali should be completed as soon as possible.

*Reorganization of the sanitary station of Jebel-Tor.*

The Conference confirms the recommendations and views expressed on previous occasions and leaves to the Sanitary Board the duty of carrying out the improvements. The Conference also considers:—

1. That it is necessary to supply the pilgrims with good drinking-water, either from a local source or by distillation.
2. That it is desirable that all food imported by pilgrims from Jeddah and from Yembo, when there is plague in the Hedjaz, should be disinfected as a suspected commodity, or completely destroyed, if it appears to have deteriorated so as to have become dangerous.
3. That steps should be taken to prevent pilgrims bringing with them leather bottles from Jebel-Tor. They should be replaced by earthenware vessels or by metal cans.
4. That each section should be provided with a doctor.
5. That a Port Officer should be posted at El-Tor to superintend embarkation and disembarkation, and to see that the rules are observed by the captains and sarangs of the vessels.
6. That, during the pilgrim season, only pilgrims should be detained in observation at Jebel-Tor.
7. That the village of Kouroum should be evacuated.
8. That the encampment of Jebel-Tor should be connected by telegraph with the sanitary station of Suez.

Before entering the Persian Gulf, ships must touch at the sanitary post in the Straits of Ormuz. They will there be subjected to the sanitary measures prescribed by the rules. If there are any plague cases on board, the sick will be disembarked.

Ships wishing to proceed at once up the Shat-el-Arab will be permitted, if the period of observation is not completed, to continue their voyage, through the Persian Gulf and the Shat-el-Arab in quarantine. A sanitary officer and two sanitary guards, taken on board at Ormuz, will keep a watch on the ship as far as Bassorah, where a second medical inspection will be made, and the necessary disinfection will be carried out.

Ships wishing to disembark passengers or goods at Persian Ports will be permitted to do so at Bushire, when suitable sanitary arrangements have been made; until then, they must land their passengers and goods at Ormuz or Bassorah.

It is to be understood that a *healthy* ship will be granted *free pratique* at the ports of the Persian Gulf ten days after the date of departure from the last infected ports at which she has touched, provided that she is shown to be *healthy* on arrival.

The sanitary posts at Ormuz and Bassorah will be under the control of the Constantinople Board of Health. The Ottoman and Persian Governments will come to an agreement with regard to the post at Ormuz.

Until the Ottoman and Persian Governments have arrived at this agreement, a sanitary post will be established as a temporary measure in one of the islands in the Straits of Ormuz, and the Board of Health will post doctors and sanitary guards at this place. These guards will accompany ships passing in quarantine up the Shat el-Arab to the post established in the neighbourhood of Bassorah.

The Constantinople Board of Health will also organize without delay sanitary posts at Khanikin, and Kizil Dizé, near Bayazid, on the Perso-Turkish and Russo-Turkish frontiers.

## CHAPTER II.

### MEASURES TO BE TAKEN IN EUROPE.

*Section I.—Measures to be taken to keep the Governments which are parties to the Convention acquainted with the existence of an epidemic of Plague, and with the means taken to prevent its spread and its importation into healthy countries.*

#### NOTIFICATION AND SUBSEQUENT COMMUNICATIONS.

The Government of an infected country must notify to the other Governments the existence of all cases of plague. This measure is essential.

It will only be of real use, if the Government of the infected country is itself informed of cases of plague and suspicious cases occurring in its territory. It cannot, therefore, be too strongly impressed on the different Governments that doctors should be obliged to report all cases of plague.

The notification should state the existence of cases of plague, the places where they have occurred, the date of their appearance, the number of cases reported, and the number of deaths.

The notification should be made to the diplomatic or consular agents in the capital of the infected country. In the case of countries not represented there, the notification should be made, by telegram, direct to the foreign Governments.

This first notification should be followed by subsequent regular communications, with a view to keep the Governments informed of the course of the epidemic. These communications should be made at least once a week.

The reports concerning the outbreak and course of the disease should be as complete as possible. They should, in particular, state the measures taken to check the spread of the epidemic and should give, in detail, the preventive measures adopted, with regard to—

- sanitary or medical inspection;
- isolation;
- disinfection;

and the measures prescribed with regard to the departure of ships, and the export of susceptible articles.

It is to be understood that neighbouring countries reserve to themselves the right to make special arrangements, with the object of organizing an exchange of direct information between the principal administrative officers on their frontiers.

The Government of each country must publish, immediately, the measures which it decides to adopt with regard to arrivals from an infected country or local area.

The information must be at once communicated to the diplomatic or consular agent of the country affected, resident in the capital. In the absence, in the capital, of a diplomatic or consular agency, the communication should be made direct to the Government interested.

The withdrawal of the measures, or any modifications which may be made in them, must be communicated in the same manner.

*Section II.—Conditions under which a local\* area is to be considered infected or healthy.*

Any area in which a case of plague has been officially reported to exist will be considered to be infected.

Any area in which plague has existed will cease to be considered as infected, when it is officially reported that no death or fresh case of plague has taken place for ten days after the recovery or death of the last case, provided that the necessary disinfection has been carried out.

Preventive measures will be taken in the infected territory as soon as cases of plague are officially reported.

These measures will be discontinued as soon as it is officially stated that the area has again become healthy.

It will not be necessary to apply these measures on the occurrence of a few imported cases if there is no diffusion of the malady.

*Section III.—Necessity of restricting to the infected local areas the measures taken to prevent the spread of the epidemic.*

The precautionary measures should be confined to the infected tract and the Government concerned should only apply them to persons and goods from infected areas.

But the obligation to restrict precautions to the infected area exists only on the express condition that the Government of the infected country takes the necessary measures to prevent the exportation of susceptible articles derived from the infected area.

No restrictive measure should be enforced against persons and goods from an infected area, if they left it at least 5 days before the occurrence of the first case of plague.

*Section IV.—Goods and articles which may be considered "susceptible" with reference to the rules regarding the prohibition of import and transit, and the rules regarding disinfection.*

#### I.—IMPORT AND TRANSIT.

The following is a list of the susceptible articles and goods, the importation of which may be prohibited:—

1. Used linen clothing, personal effects and bedding.

When these articles are carried as baggage, or in consequence of a change of abode (household goods), they are subjected to special treatment.

\* A local area means a portion of the territory of a country placed under a recognized administrative authority; as, for instance, a province, a local Government, a district, a department, a canton, an island, a commune, a town, a village, a harbour, an area reclaimed from the sea, etc., whatever may be the extent and population of the portion of territory.

Soldiers' and sailors' kits, returned to their country, after their death, should be treated in the same way as the articles named above.

2. Rags, not excepting rags compressed by hydraulic force, which are carried as merchandise in bales.

3. Old sacking, carpets and old embroidery.

4. Raw hides, untanned and fresh skins.

5. Animals refuse, claws, hoofs, horse hair, hair of animals generally, raw silk and wool.

6. Human hair.

The transit of susceptible goods or articles packed in such a way that they cannot be handled on the way should not be forbidden.

Similarly, when merchandise or susceptible articles are transported in such a manner that they cannot have come into contact with infected objects during the journey, their transit through an infected local area should not bar their importation into the country to which they are consigned.

The rules regarding the prohibition of the import of susceptible goods and articles will not be applied in cases where it is proved to the satisfaction of the appointed authority of the country to which they are consigned that they were despatched at least 5 days before the occurrence of the first case of plague.

Merchandise must not be kept in quarantine on land frontiers.

Absolute prohibition or disinfection are the only measures which may be taken.

## II.—DISINFECTION.

**Baggage.**—Disinfection will be compulsory in the case of soiled linen, wearing apparel, clothes and articles carried as personal baggage, or household goods, coming from a local area, declared infected, and which the local sanitary authority considers to be contaminated.

**Merchandise.**—Disinfection will only be enforced in the case of merchandise and articles which the local sanitary authority considers contaminated, or whose importation may be prohibited.

It rests with the authorities of the country to which the articles are consigned to settle the manner by which and place in which disinfection should be carried out.

The disinfection should be carried out so as to injure the articles as little as possible.

Each country will settle the question of the compensation to be paid for damages resulting from disinfection.

Letters and correspondence, printed matter, books, newspapers, business documents (not including parcels received through the post) should be subject to no restriction or disinfection.

### Section V.—Measures to be taken on land frontiers. Railway traffic. Travellers.

Passenger carriages and mail and luggage vans should not be detained on the frontiers.

If a carriage is infected, it should be detached from the train to be disinfected, either at the frontier, or at the nearest stopping place, if this can be arranged.

Goods vans should be treated in the same way.

Land quarantine will no longer be enforced. Only persons presenting symptoms of plague should be detained.

This principle does not affect the right of each country to close, if necessary, any part of its frontiers.

The railway staff should keep a watch on the travellers' health.

Medical intervention will be confined to an inspection of the travellers and the care of the sick.

Where there is a medical inspection, it will be combined, as far as is practicable, with the custom-house inspection, so as to detain the passengers as short a time as possible. On the arrival of travellers from an infected area at their destination, it will be found very desirable to keep them under supervision for 10 days, counting from the date of departure.

The measures to be taken in regard to the crossing of the frontiers by the railway and the Post Office staff should be settled by the Administrations concerned. They should be arranged so as not to interrupt the regular service.

Governments reserve to themselves the right to take special measures with regard to certain classes of people, especially—

A.—Gipsies and vagabonds.

B.—Emigrants and persons travelling or crossing the frontier in large bodies.

### Section VI.—Special Rule for Frontier Tracts.

The regulation of the frontier traffic, and of the questions involved in this traffic, as well as the adoption of exceptional measures of supervision, must be left to special arrangement between neighbouring countries.

### Section VII.—Water-ways, rivers, canals, and lakes.

The task of regulating by special arrangements, the sanitary rules for water-ways, must be left to the Governments of the countries bordering such water-ways.

### Section VIII.—Ocean traffic. Measures to be taken at ports.

Any ship with plague on board, or on board which one or more cases have taken place within 12 days, will be considered infected.

Any ship on board which there has been a case of plague at the time of departure, or during the voyage, but on which no fresh case has occurred for 12 days, will be considered as suspected.

Any ship, even though coming from an infected port, which has had no death, or case of plague on board, either before departure, during the voyage, or on arrival, will be considered as healthy.

Infected ships are subject to the following rules:—

1. The sick will be immediately disembarked and isolated.

2. The other persons on board should also, if possible, be disembarked and kept under observation or surveillance \* for a period varying according to the sanitary condition of the ship, and the date of the last case, but which must not exceed 10 days.

3. The soiled linen and personal effects of the crew and passengers, which, in the opinion of the sanitary authority of the port, may be considered as infected, will be disinfected.

4. The bilge-water will be pumped out after disinfection, and good drinking-water will be substituted for the water stored on board.

5. All parts of the ship which have been inhabited by plague patients should be disinfected. More thorough disinfection may be ordered by the local sanitary authority.

Suspected ships are subject to the following measures:—

1. Medical inspection.

2. Disinfection; the soiled linen and personal effects of the crew and passengers, which, in the opinion of the local sanitary authority, may be regarded as contaminated, should be disinfected.

3. Pumping out the bilge-water after disinfection, and the substitution of good drinking-water for the water stored on board.

4. Disinfection of all parts of the ship which have been inhabited by plague patients. More thorough disinfection may be ordered by the local sanitary authority.

It is recommended that a watch should be kept over the health of the crew and passengers for 10 days from the date of arrival of the ship.

It is also recommended that the crew should not be allowed to land, except on duty.

Healthy ships will be given *free pratique* at once, irrespective of the nature of the Bill of Health.

The only measures which the authorities of the port of arrival may enforce with regard to such ships consist in those which are prescribed in the case of suspected ships (medical inspection, disinfection, pumping out the bilge-water, and substitution of good drinking-water for the water stored on board), except that the measures prescribed for the disinfection of the ship itself may not be enforced in the case of healthy ships.

It is recommended that the crew and passengers should be kept under medical supervision for 10 days from the date on which ship left an infected port.

It is also recommended that the crew should not be allowed to land, except on duty.

It is to be understood that the appointed authority of the port of arrival may always demand a declaration, on oath, from the doctor of the ship, or reading him, from the captain, that there has been no case of plague on ship since her departure.

In deciding on the extent to which effect is to be given to the measures prescribed above, the authorities of the port should take into consideration the fact that there is a doctor, or a disinfecting apparatus (stove) on board the ships coming under the three headings mentioned above.

Special measures may be prescribed for crowded ships, particularly for emigrant ships, or any other ship which appears to be in an insanitary state.

Goods arriving by sea should be treated in the same way as goods arriving by land, as regards disinfection, prohibition of import, transit, and quarantine.

Any ship objecting to submit to the obligations imposed by the authority of the port will be free to put back to sea.

The disembarkation of goods may be authorized, after the following necessary precautions have been taken:—

1. Isolation of the ship, crew and passengers.

2. Pumping out the bilge-water after disinfection.

3. Substitution of good drinking-water for the water stored on board.

The disembarkation of passengers wishing to land, may also be authorized, on condition that they submit to the measures prescribed by the local authorities.

Each country should supply at least one port on each of its sea boards, with the organization and equipment necessary to enable it to receive a ship, whatever its sanitary state.

Coasting vessels will be subject to special rules, to be drawn up conjointly by the countries concerned.

### Section IX.—Measures to be taken with regard to ships coming from an infected port and ascending the Danube.

Until the town of Sulina is provided with good drinking-water, the sanitary condition of ships ascending the river will be subject to thorough sanitary supervision.

Over-crowding of passengers will be strictly forbidden.

Ships entering Roumania by the Danube will be detained for medical inspection, and until disinfection has been completed.

Ships arriving at Sulina must, before being permitted to ascend the Danube, undergo one or more medical inspections by day. Each morning, at a given hour, the doctor will satisfy himself as to the state of health of all persons on the boat, and will not permit it to enter the river, until he is assured that their condition is satisfactory. He will deliver, free of charge, to the captain or master, a sanitary passport, bill of health or certificate, the production of which will be demanded at the subsequent station.

There will be a daily inspection. The detention at Sulina of healthy ships will not exceed 6 days.

Contaminated clothes will be disinfected on arrival.

Drinking-water of good quality will be substituted for water of questionable quality that may be on board.

The bilge-water will be disinfected.

The measures above indicated will only be applied to arrivals from ports infected with the plague.

It is to be understood that a ship coming from a healthy port may, if it does not wish to submit to the restrictive measures indicated above, refuse to embark travellers from an infected port.

The rules for suspected and infected ships will be the same as at other European ports.

\* Note.—The expression "observation" means segregation of the passengers either on board a ship or in a lazaretto till they have obtained *free pratique*. The expression "surveillance" means that the passengers will not be isolated; they will at once obtain *free pratique*, but on arriving at their destination they will be kept under medical surveillance.

## CHAPTER III.

## INSTRUCTIONS REGARDING THE METHOD OF DISINFECTION.

1. Personal effects, rags, infected bandages, papers and other articles without value should be destroyed by fire.

2. Under-clothing, bedding, wearing apparel, mattresses, carpets, etc., which are contaminated or suspected should be disinfected in stoves at normal pressure, or at a pressure of from one and a half to two degrees, with or without the presence of steam.

Before a stove is passed as efficient for the purposes of disinfection, it should be subjected to a test, with the aid of a signal thermometer, showing the moment when the temperature in the middle of a mattress rises to at least 100° (centigrade).

To ensure that the disinfection is effective, this temperature must be maintained for from 10 to 15 minutes.

3. Disinfecting solutions—

(a) Solution of corrosive sublimate, of 1 part in 1,000, with the addition of 10 grammes of chloride of soda.

The solution should be coloured with aniline dye or indigo. It should not be placed in metal vessels.

(b) A 5 per cent. solution of pure crystallized carbolic acid, or 5 per cent. of crude commercial carbolic acid, in a warm solution of soft soap.

(c) Fresh slaked-lime.\*

4. Special instructions to be observed in the employment of disinfecting solutions—

The linen, clothing and articles soiled by the excreta of patients should be soaked in the solution of corrosive sublimate. The solution of pure carbolic acid and the solution of soap and carbolic acid are equally suited to the purpose. The articles should remain in the solution for at least six hours.

Articles which cannot be subjected to the temperature of the stove (100° centigrade) without injury, such as leather goods, wooden articles stuck together with glue, felt, velvet, silk, etc., should be washed with the solution of corrosive sublimate; coins can be disinfected with the solution of soap and carbolic acid.

Persons engaged in nursing the sick should wash their hands and faces with the solution of corrosive sublimate, or with one of the carbolic solutions.

The carbolic solutions will be useful, more particularly for disinfecting articles, such as metals, instruments, etc., which can neither be subjected to a temperature of 100° centigrade, nor placed in contact with corrosive sublimate.

Slaked-lime is particularly recommended for disinfecting excreta. Expecterated matter should be burnt.

5. Disinfection of ships with plague patients on board.

The cabin or cabins, and all parts of the ship occupied by the sick or suspected, should be cleared out and all articles in them should be treated as described above.

The partitions should be disinfected with the solution of corrosive sublimate with an addition of 10 per cent. of alcohol. The washing should commence from the top, horizontally, and be continued downwards, so that the whole surface of the partition becomes covered with a coating of minute drops.

The boarding should be washed with the same solution.

Two hours after, the walls and flooring should be washed over with plenty of water.

6. Disinfection of the hold of an infected ship—

To disinfect the hold, sulphate of iron, in quantity sufficient to neutralize the sulphuretted hydrogen, should first be thrown in, the bilge-water should be pumped out, and the hold washed with seawater. Solution of corrosive sublimate should then be thrown in.

The bilge-water should not be pumped out while the ship is in port.

\* To get very strong slaked-lime, take lime of good quality, slack it, by moistening it gradually, with half its weight of water. When the operation is completed, put the powder in a carefully-corked receptacle, and place it in a dry spot. As each kilogramme of lime absorbs 500 grains of water in order to become slack, it acquires a volume of 2 litres 200, and it is sufficient to dilute it with double its volume of water, say 4 kilogrammes 400 grains, to obtain a white-wash which will be of about 20 per cent. strength.

## CHAPTER IV.

## PRECAUTIONARY MEASURES RECOMMENDED FOR SHIPS ON DEPARTURE, DURING THE VOYAGE, AND ON ARRIVAL.

*Note.*—Plague appears to be transmitted by the excretions of the sick (from the air passages and bowels), by the morbid products of the disease (pus), and consequently by means of linen, clothing, and solid hands.

## I.—MEASURES TO BE TAKEN ON DEPARTURE.

1. The captain should be careful not to embark persons suspected to be suffering from plague. He should refuse to receive on board dirty or suspicious linen, personal effects, and bedding, and, generally, all dirty or suspicious articles.

Bedding, wearing apparel, personal effects, etc., belonging to persons suffering from plague should not be taken on board.

2. Before embarkation, the ship should be put in a state of perfect cleanliness and she should, if necessary, be disinfected.

3. It is essential that the drinking-water taken on board should be obtained from a source free from all possible contamination.

Water is not dangerous if it is distilled or boiled.

## II.—MEASURES TO BE TAKEN DURING THE VOYAGE.

1. Every ship should have a special place reserved for the segregation of persons attacked by contagious disease.

2. If there is no such place on board, the cabin or other place, in which a person is attacked with plague, should be isolated.

Only those attending the patients should be admitted.

Such attendants should be cut off from all contact with the other persons on board.

3. The bedding, linen, and clothing which have been in contact with the patient should immediately, and in the patients' room, be soaked in a disinfecting solution.

The same measure should be taken in the case of the clothing of persons who have access to the patient which may have become polluted.

Articles which are of no value should be burnt, or thrown overboard, if the ship is not in port or in a canal. Other articles should be carried to the stove, in impermeable bags, sprinkled with a solution of corrosive sublimate, so as to avoid all contact with surrounding objects.

If there is not a stove on board, the articles should be soaked in the disinfecting solution for six hours.

2. The excreta of the sick should be collected in vessels, into which a glass of the disinfecting solution above described has been previously poured.

3. The vessels should be at once emptied into the latrines which should be disinfected each time.

4. The places occupied by the sick should be carefully disinfected according to the rules previously laid down.

5. Corpses should be wrapped in a shroud impregnated with corrosive sublimate and thrown into the sea.

6. All the preventive measures taken during the voyage should be stated in the log, which should be submitted to the sanitary authority immediately on arrival in port.

7. The measures should be applied to everything that has been in contact with the sick, irrespective of the gravity and the result of the illness.

## III.—MEASURES TO BE TAKEN ON ARRIVAL.

1. If the ship is infected, the persons attacked should be disembarked and segregated in a place set apart for the purpose.

Those who have had access to the sick should be considered as suspected.

2. All contaminated objects and articles such as clothes, bedding, mattresses, carpets, and other articles which have been in contact with the sick, the clothes of those who have been in attendance on them, the articles in the patients' cabin, and in any cabin and on the deck, or parts of the deck where the sick have been placed, should be disinfected.

## CHAPTER V. ADMINISTRATION AND CONTROL.

### POWERS OF THE CONSTANTINOPLE BOARD OF HEALTH (RED SEA—PERSIAN GULF—PERSO-TURKISH, AND RUSSO-TURKISH FRONTIERS).

1. The execution and control of measures against the spread of plague, prescribed by this Convention, are entrusted, in exercise of the powers of the Constantinople Board of Health, to the Committee established by Article 1 of Annexure IV of the Paris Convention of the 3rd April 1894. It should be explained, however, that the members of this Committee will be taken exclusively from the Constantinople Board of Health, and will represent the Powers which have accepted, or may hereafter accept, the Sanitary Conventions of Venice, 1892, of Dresden, of Paris, and of Venice, 1897.

2. The proper working of the various sanitary establishments, prescribed by existing rules, is entrusted to the corps of diplomaed and duly qualified doctors, of disinfecting officers, of experienced subordinates and of sanitary guards recruited from among persons who have performed military service as officers or non-commissioned officers, as provided for in Article 2 of Annexure IV of the Paris Convention.

3. The expenses of the establishment of permanent and temporary sanitary posts, as contemplated by this Convention are, as regards the construction of the buildings, debitable to the Turkish Government. The Constantinople Board of Health is authorized, in case of emergency, to advance the necessary money from the reserve fund. In this case, it should supervise the construction of these establishments.

4. The Constantinople Board of Health should also organize, without delay, the sanitary establishments at Khanikin, and Kizil Dizé, near Bayazid, on the Perso-Turkish frontier, out of the funds which are now placed at its disposal.

5. Articles 4, 5 and 6 of Annexure IV of the Convention of Paris of 1894 may be utilized for carrying out the present rules.

### POWERS OF THE SANITARY, MARITIME, AND QUARANTINE BOARD OF EGYPT.

6. The expenses involved in the measures prescribed for in the rules contained in this Convention may be met by the following measures, which the Conference recommends, not only to meet the new requirements at Moses Wells, but also to defray the cost of the increase of the staff under the Sanitary Board:—

(1) The prorogation, with the consent of the Powers, of the Khedival Decree of 28th December 1896 (fixing the 1st July 1897 as the date for the application of the reduced tariff for light house dues until the difference between the receipts of the present tariff and the reduced tariff has reached the sum of £1,000 (Egyptian)). The sum thus realized will be devoted to extraordinary expenses (new arrangements at Moses Wells).

(2) For ordinary expenses (increase of staff) an annual payment by the Egyptian Government to the Sanitary Board of a sum of £1,000 (Egyptian), which can be deducted in advance from the surplus of the Light-house service fund remaining at the disposal of the Government.

From this sum, however, there will be deducted the value of a supplementary quarantine tax of P.F. 10 (piastres tariff) to be collected from each pilgrim at El-Tor.

In the event of the Egyptian Government finding difficulty in meeting its share of the charges, the Powers represented on the Sanitary Board will arrange with the Khedival Government to ensure the participation of the latter in the estimated cost.